PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL

JOB NUMBER

380-57979-2

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

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization

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Authorized for release by Rachelle Arada, Project Manager Rachelle.Arada@et.eurofinsus.com (626)386-1106

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Definitions/Glossary

Client: City & County of Honolulu

Job ID: 380-57979-2 Project/Site: RED-HILL

Qualifiers

Subcontract

Qualifier **Qualifier Description**

This analyte was not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

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)

Estimated Detection Limit (Dioxin) **EDL** 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 Method Quantitation Limit MQL

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**

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Case Narrative

Client: City & County of Honolulu

Project/Site: RED-HILL

Job ID: 380-57979-2

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-57979-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/8/2023 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 time was 4.9°C

Subcontract Work

Methods 8015 Gas (Purgeable) LL (EAL), 8015 LL DRO/MRO/JP5/JP8: These methods were subcontracted to EMAX Laboratories Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

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. The subcontract report is appended in its entirety.

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Job ID: 380-57979-2

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Detection Summary

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Client Sample ID: HALAWA WELLS UNITS 1 & 2

Lab Sample ID: 380-57979-1

No Detections.

Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2 Lab Sample ID: 380-57979-2

No Detections.

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Job ID: 380-57979-2

Client: City & County of Honolulu

Project/Site: RED-HILL

BROMOBENZENE

Client Sample ID: HALAWA WELLS UNITS 1 & 2

Lab Sample ID: 380-57979-1 Date Collected: 08/02/23 10:00 **Matrix: Drinking Water** Date Received: 08/08/23 10:00

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i RL **MDL** Unit Dil Fac Analyte Result Qualifier Prepared Analyzed 0.005 1-Methylnaphthalene ND 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 ND 0.005 1-Methylphenanthrene 0.001 µg/L 08/09/23 00:00 09/06/23 15:51 2,3,5-Trimethylnaphthalene ND 0.005 0.001 µg/L 08/09/23 00:00 09/06/23 15:51 ND 09/06/23 15:51 2,6-Dimethylnaphthalene 0.005 0.001 µg/L 08/09/23 00:00 2-Methylnaphthalene ND 0.005 0.001 08/09/23 00:00 09/06/23 15:51 μg/L μg/L Acenaphthene ND 0.005 0.001 08/09/23 00:00 09/06/23 15:51 Acenaphthylene ND 0.005 0.001 08/09/23 00:00 09/06/23 15:51 μg/L Anthracene ND 0.005 0.001 08/09/23 00:00 09/06/23 15:51 μg/L Benz[a]anthracene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 Benzo[a]pyrene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 Benzo[b]fluoranthene ND 0.005 0.001 μq/L 08/09/23 00:00 09/06/23 15:51 Benzo[e]pyrene ND 0.005 0.001 µg/L 08/09/23 00:00 09/06/23 15:51 1 09/06/23 15:51 Benzo[g,h,i]perylene ND 0.005 0.001 µg/L 08/09/23 00:00 Benzo[k]fluoranthene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 Biphenyl ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 08/09/23 00:00 09/06/23 15:51 Chrysene ND 0.005 0.001 μg/L Dibenz[a,h]anthracene ND 0.005 0.001 08/09/23 00:00 09/06/23 15:51 μg/L Dibenzo[a,l]pyrene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 09/06/23 15:51 Dibenzothiophene ND 0.005 0.001 μg/L 08/09/23 00:00 Disalicylidenepropanediamine ND 0.1 0.05 µg/L 08/09/23 00:00 09/06/23 15:51 08/09/23 00:00 09/06/23 15:51 Fluoranthene ND 0.005 0.001 µg/L Fluorene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 Indeno[1,2,3-cd]pyrene ND 0.005 08/09/23 00:00 09/06/23 15:51 0.001 μg/L Naphthalene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 Perylene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 ND 0.001 08/09/23 00:00 09/06/23 15:51 Phenanthrene 0.005 μg/L Pyrene ND 0.005 0.001 μg/L 08/09/23 00:00 09/06/23 15:51 Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac (d10-Acenaphthene) 90 27 - 13308/09/23 00:00 09/06/23 15:51 (d10-Phenanthrene) 95 43 - 129 08/09/23 00:00 09/06/23 15:51 (d12-Chrysene) 87 52 - 144 08/09/23 00:00 09/06/23 15:51 93 36 - 161 (d12-Perylene) 08/09/23 00:00 09/06/23 15:51 (d8-Naphthalene) 82 25 - 125 08/09/23 00:00 09/06/23 15:51 Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics Result Qualifier MDL Unit Analyte RL D Prepared Dil Fac Analyzed GASOLINE $\overline{\mathsf{ND}}$ $\overline{\mathsf{U}}$ 0.02 mg/L 08/10/23 01:06 Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed **BROMOFLUOROBENZENE** 90 60 - 140 08/10/23 01:06

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.026	mg/L			08/16/23 21:27	1
JP5	ND	U	0.052	mg/L			08/16/23 21:27	1
JP8	ND	U	0.052	mg/L			08/16/23 21:27	1
MOTOR OIL	ND	U	0.052	mg/L			08/16/23 21:27	1

60 - 130

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08/16/23 21:27

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Client Sample Results

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Client Sample ID: HALAWA WELLS UNITS 1 & 2 Lab Sample ID: 380-57979-1

Date Collected: 08/02/23 10:00 **Matrix: Drinking Water**

Date Received: 08/08/23 10:00

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO (Continued)

%Recovery Qualifier Prepared Dil Fac Analyzed HEXACOSANE 85 60 - 130 08/16/23 21:27

Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2 Lab Sample ID: 380-57979-2

Date Collected: 08/02/23 10:00 **Matrix: Water**

Date Received: 08/08/23 10:00

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Analyte Result Qualifier MDL Unit D RL Prepared Analyzed Dil Fac GASOLINE ND U 0.02 mg/L 08/10/23 02:59

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac BROMOFLUOROBENZENE 88 60 - 140 08/10/23 02:59

Client: City & County of Honolulu

Project/Site: RED-HILL

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

Matrix: BlankMatrix Prep Type: Total/NA

Lab Sample ID Client Sample ID (27-133) (43-129) (52-144) (25-125) (36-10) 109446-B1 Method Blank 104 105 101 96 109			Percent Surrogate Recovery (Acceptance Limits)						
109446-B1 Method Blank 104 105 101 96 109			Acenapht	Phenanth	CRY	NPT	PRY		
	Lab Sample ID	Client Sample ID	(27-133)	(43-129)	(52-144)	(25-125)	(36-161)		
109446-BS1 Lab Control Sample 103 104 102 95 110	109446-B1	Method Blank	104	105	101	96	109		
	109446-BS1	Lab Control Sample	103	104	102	95	110		
109446-BS2 Lab Control Sample Dup 109 104 101 104 109	109446-BS2	Lab Control Sample Dup	109	104	101	104	109		
	Surrogate Legend								

(d10-Acenaphthene) = (d10-Acenaphthene) (d10-Phenanthrene) = (d10-Phenanthrene)

CRY = (d12-Chrysene) NPT = (d8-Naphthalene)

PRY = (d12-Perylene)

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

Matrix: Drinking Water Prep Type: Total/NA

		Pe	rcent Surro	ogate Reco	very (Acce	ptance Lim
	Acenapht	Phenanth	CRY	NPT	PRY	
Lab Sample ID Client Sample ID	(27-133)	(43-129)	(52-144)	(25-125)	(36-161)	
380-57979-1 HALAWA WELLS UNIT	TS 1 & 2 90	95	87	82	93	

(d10-Phenanthrene) = (d10-Phenanthrene)

BFB = BROMOFLUOROBENZENE

CRY = (d12-Chrysene) NPT = (d8-Naphthalene) PRY = (d12-Perylene)

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: Drinking Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(60-140)	
380-57979-1	HALAWA WELLS UNITS 1 & 2	90	
Surrogate Legend			

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: Water Prep Type: Total/NA

_		
		BFB
Lab Sample ID	Client Sample ID	(60-140)
380-57979-2	TB: HALAWA WELLS UNITS 1 {	88
Surrogate Legend		

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Job ID: 380-57979-2

Job ID: 380-57979-2

Client: City & County of Honolulu

Project/Site: RED-HILL

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) **BFB** Client Sample ID (60-140)Lab Sample ID

23H064-01M Matrix Spike 113 23H064-01S Matrix Spike Duplicate 108

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) BFB Lab Sample ID **Client Sample ID** 23VGH7H04B Method Blank Surrogate Legend BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Matrix: WATER Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) **BFB** Lab Sample ID Client Sample ID (70-130)23VGH7H04C LCD 105 23VGH7H04L Lab Control Sample 113 Surrogate Legend BFB = BROMOFLUOROBENZENE

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: Drinking Water Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) XACOSA BB (60-130)(60-130)Lab Sample ID Client Sample ID HALAWA WELLS UNITS 1 & 2 380-57979-1 85 68

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: WATER Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) BB XACOSA

Client Sample ID Lab Sample ID 23DSH017WB Method Blank

Surrogate Legend

BB = BROMOBENZENE

HEXACOSANE = HEXACOSANE

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Surrogate Summary

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Matrix: WATER Prep Type: Total/NA

			Percent S	Surrogate Recovery (Acceptance Limits)
		BB	XACOSA	
Lab Sample ID	Client Sample ID	(60-130)	(60-130)	
23DSH017WC	LCD	80	100	
23DSH017WL	Lab Control Sample	83	106	
23J5H017WC	LCD	80	97	
23J5H017WL	Lab Control Sample	83	90	
23J8H017WC	LCD	99	92	
23J8H017WL	Lab Control Sample	98	91	
Surrogate Legend	I			
BB = BROMOBEN	ZENE			
HEXACOSANE = H	HEXACOSANE			

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i

Lab Sample ID: 109446-B1

Matrix: BlankMatrix

Analysis Batch: O-42030

Prep Batch: O-42030_P

	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
1-Methylphenanthrene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
2,3,5-Trimethylnaphthalene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
2,6-Dimethylnaphthalene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
2-Methylnaphthalene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Acenaphthene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Acenaphthylene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Anthracene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Benz[a]anthracene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Benzo[a]pyrene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Benzo[b]fluoranthene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Benzo[e]pyrene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Benzo[g,h,i]perylene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Benzo[k]fluoranthene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Biphenyl	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Chrysene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Dibenz[a,h]anthracene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Dibenzo[a,l]pyrene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Dibenzothiophene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Disalicylidenepropanediamine	ND		0.1	0.05	μg/L		08/07/23 00:00	09/06/23 02:16	1
Fluoranthene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Fluorene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Indeno[1,2,3-cd]pyrene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Naphthalene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Perylene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Phenanthrene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1
Pyrene	ND		0.005	0.001	μg/L		08/07/23 00:00	09/06/23 02:16	1

Blank Blank Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac (d10-Acenaphthene) 104 27 - 133 08/07/23 00:00 09/06/23 02:16 (d10-Phenanthrene) 105 43 - 129 08/07/23 00:00 09/06/23 02:16 (d12-Chrysene) 52 - 144 08/07/23 00:00 09/06/23 02:16 101 (d12-Perylene) 109 36 - 161 08/07/23 00:00 09/06/23 02:16 (d8-Naphthalene) 96 25 - 125 08/07/23 00:00 09/06/23 02:16

Lab Sample ID: 109446-BS1 Matrix: BlankMatrix Analysis Batch: O-42030 Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: O-42030_P

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1-Methylnaphthalene	0.5	0.483		μg/L		97	31 - 128	
1-Methylphenanthrene	0.5	0.519		μg/L		104	66 - 127	
2,3,5-Trimethylnaphthalene	0.5	0.522		μg/L		104	55 - 122	
2,6-Dimethylnaphthalene	0.5	0.507		μg/L		101	48 - 120	
2-Methylnaphthalene	0.5	0.492		μg/L		98	47 - 130	
Acenaphthene	0.5	0.504		μg/L		101	53 - 131	
Acenaphthylene	0.5	0.533		μg/L		107	43 - 140	
Anthracene	0.5	0.509		μg/L		102	58 - 135	

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Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 109446-BS1 Matrix: BlankMatrix **Analysis Batch: O-42030**

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: O-42030_P

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benz[a]anthracene	0.5	0.455		μg/L		91	55 - 145	
Benzo[a]pyrene	0.5	0.538		μg/L		108	51 - 143	
Benzo[b]fluoranthene	0.5	0.499		μg/L		100	46 - 165	
Benzo[e]pyrene	0.5	0.514		μg/L		103	42 - 152	
Benzo[g,h,i]perylene	0.5	0.52		μg/L		104	63 - 133	
Benzo[k]fluoranthene	0.5	0.512		μg/L		102	56 - 145	
Biphenyl	0.5	0.503		μg/L		101	56 - 119	
Chrysene	0.5	0.488		μg/L		98	56 - 141	
Dibenz[a,h]anthracene	0.5	0.525		μg/L		105	55 - 150	
Dibenzo[a,l]pyrene	0.5	0.413		μg/L		83	50 - 150	
Dibenzothiophene	0.5	0.498		μg/L		100	46 - 126	
Disalicylidenepropanediamine	50	54.4		μg/L		109	50 - 150	
Fluoranthene	0.5	0.501		μg/L		100	60 - 146	
Fluorene	0.5	0.529		μg/L		106	58 - 131	
Indeno[1,2,3-cd]pyrene	0.5	0.503		μg/L		101	50 - 151	
Naphthalene	0.5	0.472		μg/L		94	41 - 126	
Perylene	0.5	0.525		μg/L		105	48 - 141	
Phenanthrene	0.5	0.502		μg/L		100	67 - 127	
Pyrene	0.5	0.51		μg/L		102	54 - 156	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
(d10-Acenaphthene)	103		27 - 133
(d10-Phenanthrene)	104		43 - 129
(d12-Chrysene)	102		52 - 144
(d12-Perylene)	110		36 - 161
(d8-Naphthalene)	95		25 - 125

Lab Sample ID: 109446-BS2 Client Sample ID: Lab Control Sample Dup Matrix: BlankMatrix Prep Type: Total/NA **Analysis Batch: O-42030** Prep Batch: O-42030_P

Analysis Batom S 42000	1011. 6 42000					1 Top Batom & 42000_1					
-	Spike	LCS DUP	LCS DUP				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
1-Methylnaphthalene	0.5	0.52		μg/L		104	31 - 128	7	30		
1-Methylphenanthrene	0.5	0.495		μg/L		99	66 - 127	5	30		
2,3,5-Trimethylnaphthalene	0.5	0.525		μg/L		105	55 - 122	1	30		
2,6-Dimethylnaphthalene	0.5	0.527		μg/L		105	48 - 120	4	30		
2-Methylnaphthalene	0.5	0.523		μg/L		105	47 - 130	7	30		
Acenaphthene	0.5	0.524		μg/L		105	53 - 131	4	30		
Acenaphthylene	0.5	0.54		μg/L		108	43 - 140	1	30		
Anthracene	0.5	0.509		μg/L		102	58 - 135	0	30		
Benz[a]anthracene	0.5	0.425		μg/L		85	55 - 145	7	30		
Benzo[a]pyrene	0.5	0.515		μg/L		103	51 - 143	5	30		
Benzo[b]fluoranthene	0.5	0.487		μg/L		97	46 - 165	3	30		
Benzo[e]pyrene	0.5	0.505		μg/L		101	42 - 152	2	30		
Benzo[g,h,i]perylene	0.5	0.512		μg/L		102	63 - 133	2	30		
Benzo[k]fluoranthene	0.5	0.483		μg/L		97	56 - 145	5	30		
Biphenyl	0.5	0.528		μg/L		106	56 - 119	5	30		
Chrysene	0.5	0.475		μg/L		95	56 - 141	3	30		

Eurofins Eaton Analytical Pomona

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Job ID: 380-57979-2

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

Method: 625 PAH Physis LL (EAL) + TICs - EPA 625 Base/Neutral and Acid Organics i (Continued)

Lab Sample ID: 109446-BS2 Client Sample ID: Lab Control Sample Dup Matrix: BlankMatrix Prep Type: Total/NA Analysis Batch: O-42030 Prep Batch: O-42030_P

Result 0.507	Qualifier Unit	D	%Rec	Limits	RPD	1
5 0.507	/1			Lilling	KPD	Limit
	μg/L		101	55 - 150	4	30
5 0.384	μg/L		77	50 - 150	8	30
5 0.499	μg/L		100	46 - 126	0	30
52	μg/L		104	50 - 150	5	30
5 0.479	μg/L		96	60 - 146	4	30
5 0.527	μg/L		105	58 - 131	1	30
5 0.485	μg/L		97	50 - 151	4	30
5 0.502	μg/L		100	41 - 126	6	30
5 0.509	μg/L		102	48 - 141	3	30
5 0.502	μg/L		100	67 - 127	0	30
5 0.484	μg/L		97	54 - 156	5	30
(; ; ;	5 0.384 5 0.499 0 52 5 0.479	5 0.384 μg/L 5 0.499 μg/L 0 52 μg/L 5 0.479 μg/L 5 0.527 μg/L 5 0.485 μg/L 5 0.502 μg/L 5 0.509 μg/L 5 0.502 μg/L	5 0.384 μg/L 5 0.499 μg/L 0 52 μg/L 5 0.479 μg/L 5 0.527 μg/L 5 0.485 μg/L 5 0.502 μg/L 5 0.509 μg/L 5 0.502 μg/L	5 0.384 μg/L 77 5 0.499 μg/L 100 0 52 μg/L 104 5 0.479 μg/L 96 5 0.527 μg/L 105 5 0.485 μg/L 97 5 0.502 μg/L 100 5 0.509 μg/L 102 5 0.502 μg/L 100	5 0.384 μg/L 77 50 - 150 5 0.499 μg/L 100 46 - 126 0 52 μg/L 104 50 - 150 5 0.479 μg/L 96 60 - 146 5 0.527 μg/L 105 58 - 131 5 0.485 μg/L 97 50 - 151 5 0.502 μg/L 100 41 - 126 5 0.509 μg/L 102 48 - 141 5 0.502 μg/L 100 67 - 127	5 0.384 μg/L 77 50 - 150 8 5 0.499 μg/L 100 46 - 126 0 0 52 μg/L 104 50 - 150 5 5 0.479 μg/L 96 60 - 146 4 5 0.527 μg/L 105 58 - 131 1 5 0.485 μg/L 97 50 - 151 4 5 0.502 μg/L 100 41 - 126 6 5 0.509 μg/L 102 48 - 141 3 5 0.502 μg/L 100 67 - 127 0

LCS DUP LCS DUP

Surrogate	%Recovery	Qualifier	Limits
(d10-Acenaphthene)	109		27 - 133
(d10-Phenanthrene)	104		43 - 129
(d12-Chrysene)	101		52 - 144
(d12-Perylene)	109		36 - 161
(d8-Naphthalene)	104		25 - 125

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics

Lab Sample ID: 23VGH7H04B **Client Sample ID: Method Blank Matrix: WATER** Prep Type: Total/NA

Analysis Batch: 23VGH7H04

	MB	MR								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
GASOLINE	ND	U	0.02		mg/L			08/09/23 15:02	1	
	МВ	МВ								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
BROMOFLUOROBENZENE						_		08/09/23 15:02	1	

Lab Sample ID: 23VGH7H04L **Client Sample ID: Lab Control Sample**

Matrix: WATER

Analysis Batch: 23VGH7H04

•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
GASOLINE	0.5	0.461		mg/L		92	60 - 130

70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits

113

Lab Sample ID: 23H064-01M Client Sample ID: Matrix Spike

Analysis Batch: 23VGH7H04

BROMOFLUOROBENZENE

Matrix: WATER

	Sample	Sample	Spike	MS	MS					%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	I)	%Rec	Limits		
GASOLINE	ND		0.5	0.437		mg/L			87	50 - 130		

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08/09/23 15:02

Prep Type: Total/NA

Prep Type: Total/NA

11/21/2023

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Method: 8015 Gas (Purgeable) LL (EAL) - SW846 8015B Gasoline Range Organics (Continued)

Lab Sample ID: 23H064-01M **Client Sample ID: Matrix Spike Prep Type: Total/NA**

Matrix: WATER

Analysis Batch: 23VGH7H04

MS MS

%Recovery Qualifier Surrogate Limits BROMOFLUOROBENZENE 113 60 - 140

Lab Sample ID: 23H064-01S

Matrix: WATER

Analysis Batch: 23VGH7H04

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD **Analyte** Result Qualifier Unit %Rec Limit GASOLINE ND 0.5 0.427 mg/L 85 50 - 130 30

MSD MSD

%Recovery Surrogate Qualifier Limits BROMOFLUOROBENZENE 60 - 140 108

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO

Lab Sample ID: 23DSH017WB Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: WATER

Analysis Batch: 23DSH017W

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac DIESEL П 0.025 08/16/23 18:21 ND mg/L JP5 ND 0.05 mg/L 08/16/23 18:21 JP8 ND U 0.05 mg/L 08/16/23 18:21 MOTOR OIL ND U 0.05 mg/L 08/16/23 18:21

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac **BROMOBENZENE** 08/16/23 18:21 **HEXACOSANE** 08/16/23 18:21

Lab Sample ID: 23DSH017WL **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: WATER

Analysis Batch: 23DSH017W

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits DIESEL 2.5 2.73 mg/L 109 50 - 130

LCS LCS

%Recovery Qualifier Surrogate I imits BROMOBENZENE 60 - 130 83 **HEXACOSANE** 106 60 - 130

Lab Sample ID: 23J5H017WL **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: WATER

Analysis Batch: 23DSH017W

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits mg/L JP5 2.5 2.15 86 30 - 160

Eurofins Eaton Analytical Pomona

11/21/2023

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Sample Results

60 - 130

Spike

Added

2.5

LCS LCS

2.68

Result Qualifier

Unit

mg/L

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Method: 8015 LL DRO/MRO/JP5/JP8 - 8015 - TPH DRO/ORO (Continued)

Lab Sample ID: 23J5H017WL

90

Matrix: WATER Analysis Batch: 23DSH017W

LCS LCS %Recovery Qualifier Limits 83 60 - 130

Lab Sample ID: 23J8H017WL

Matrix: WATER

BROMOBENZENE

HEXACOSANE

Surrogate

Analysis Batch: 23DSH017W

Analyte JP8

LCS LCS Surrogate %Recovery Qualifier Limits BROMOBENZENE 98 60 - 130 **HEXACOSANE** 91 60 - 130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

%Rec

Limits

30 - 160

D %Rec

107

Prep Type: Total/NA

QC Association Summary

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Subcontract

Analysis Batch: O-42030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-57979-1	HALAWA WELLS UNITS 1 & 2	Total/NA	Drinking Water	625 PAH Physis	O-42030_P
				LL (EAL) + TICs	
109446-B1	Method Blank	Total/NA	BlankMatrix	625 PAH Physis	O-42030_P
				LL (EAL) + TICs	
109446-BS1	Lab Control Sample	Total/NA	BlankMatrix	625 PAH Physis	O-42030_P
				LL (EAL) + TICs	
109446-BS2	Lab Control Sample Dup	Total/NA	BlankMatrix	625 PAH Physis	O-42030_P
				LL (EAL) + TICs	

Analysis Batch: 23DSH017W

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-57979-1	HALAWA WELLS UNITS 1 & 2	Total/NA	Drinking Water	8015 LL	-
				DRO/MRO/JP5/J	
				P8	
23DSH017WB	Method Blank	Total/NA	WATER	8015 LL	
				DRO/MRO/JP5/J	
				P8	
23DSH017WL	Lab Control Sample	Total/NA	WATER	8015 LL	
				DRO/MRO/JP5/J	
				P8	
23J5H017WL	Lab Control Sample	Total/NA	WATER	8015 LL	
				DRO/MRO/JP5/J	
				P8	
23J8H017WL	Lab Control Sample	Total/NA	WATER	8015 LL	
				DRO/MRO/JP5/J	
				P8	

Analysis Batch: 23VGH7H04

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-57979-1	HALAWA WELLS UNITS 1 & 2	Total/NA	Drinking Water	8015 Gas	
				(Purgeable) LL	
				(EAL)	
380-57979-2	TB: HALAWA WELLS UNITS 1 & 2	Total/NA	Water	8015 Gas	
				(Purgeable) LL	
				(EAL)	
23VGH7H04B	Method Blank	Total/NA	WATER	8015 Gas	
				(Purgeable) LL	
				(EAL)	
23VGH7H04L	Lab Control Sample	Total/NA	WATER	8015 Gas	
				(Purgeable) LL	
				(EAL)	
23H064-01M	Matrix Spike	Total/NA	WATER	8015 Gas	
				(Purgeable) LL	
				(EAL)	
23H064-01S	Matrix Spike Duplicate	Total/NA	WATER	8015 Gas	
				(Purgeable) LL	
				(EAL)	

Prep Batch: O-42030_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-57979-1	HALAWA WELLS UNITS 1 & 2	Total/NA	Drinking Water	EPA_625	
109446-B1	Method Blank	Total/NA	BlankMatrix	EPA_625	
109446-BS1	Lab Control Sample	Total/NA	BlankMatrix	EPA_625	
109446-BS2	Lab Control Sample Dup	Total/NA	BlankMatrix	EPA_625	

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Lab Chronicle

Client: City & County of Honolulu Job ID: 380-57979-2

Project/Site: RED-HILL

Client Sample ID: HALAWA WELLS UNITS 1 & 2 Lab Sample ID: 380-57979-1

Date Collected: 08/02/23 10:00 Matrix: Drinking Water
Date Received: 08/08/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	EPA_625		1	O-42030_P			08/09/23 00:00
Total/NA	Analysis	625 PAH Physis LL (EAL) + TICs		1	O-42030	YC		09/06/23 15:51
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL)		1	23VGH7H04	SCerva		08/10/23 01:06
Total/NA	Analysis	8015 LL DRO/MRO/JP5/JP8		1	23DSH017W	SDees		08/16/23 21:27

Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2 Lab Sample ID: 380-57979-2

Date Collected: 08/02/23 10:00 Matrix: Water Date Received: 08/08/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 Gas		1	23VGH7H04	SCerva		08/10/23 02:59
		(Purgeable) LL (EAL)						

Laboratory References:

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

-57979-2

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Method Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

Job ID: 380-57979-2

Method	Method Description	Protocol	Laboratory
625	EPA 625 Base/Neutral and Acid Organics i	EPA	
8015	8015 - TPH DRO/ORO	EPA	
8015B	SW846 8015B Gasoline Range Organics	SW846	

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

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Sample Summary

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

Job ID: 380-57979-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-57979-1	HALAWA WELLS UNITS 1 & 2	Drinking Water	08/02/23 10:00	08/08/23 10:00
380-57979-2	TB: HALAWA WELLS UNITS 1 & 2	Water	08/02/23 10:00	08/08/23 10:00



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

Date: 09-05-2023 EMAX Batch No.: 23H064

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 380-57979

Enclosed is the Laboratory report for samples received on 08/09/23. The data reported relate only to samples listed below :

.....

Sample ID	Control # Col Date	Matrix	Analysis
380-57979-1	H064-01 08/02/23	WATER	TPH GASOLINE TPH
380-57979-2	H064-02 08/02/23	WATER	TPH GASOLINE
380-57979-1MS	H064-01M 08/02/23	WATER	TPH GASOLINE
380-57979-1MSD	H064-01S 08/02/23	WATER	TPH GASOLINE

The results are summarized on the following pages.

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

Sincerely yours,

Caspar J. Plang

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 CA002912022-24 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing California ELAP Accredited Certificate Number 2672

REPORT ID: 23H064

💸 eurofins | Environment Testing

Chain of Custody Record

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive Pomona, CA 91768-2642

Phone: 626-386-1100				
	Sampler	Lab PM:	Carrier Tracking No(s):	COC No:
Client Information (Sub Contract Lab)		Arada, Rachelle		380-68724.1
Client Contact:	Phone:	E-Mail:	State of Origin:	Page:
Shipping/Receiving		Rachelle.Arada@et.eurofinsus.com	Hawaii	Page 1 of 1
Company		Accreditations Required (See note):		Job #;
EMAX Laboratories Inc		State - Hawaii		380-57979-1
Address:	Due Date Requested:			Preservation Codes:
3051 Fujita Street,	8/22/2023	Analysis Requested		A - HCI
City:	TAT Requested (days):			B-NaOH N-None
Torrance				C - Zn Acetate P - Na2O4S
State, Zip:		SE		D - Nitric Acid Q - Na2SO3
CA, 90505		7 9 9		E - NarsO4 F - MeOH
Phone:	PO#.	108 /((-		G - Amchlor S - H2SO4 H - Ascorbic Acid L - Acetros
Email:	WO#	(oN (oN) (EAI) J.	83	- loe
Project Name: RED-HILL	Project #: 38001111	able) L	9ujejt	
Site: Danabido RIVS Sitae	SSOW#:	SD (Y	02 (00	Other:

7111-032	111000)		_	 _	_	-	_	
Site: Honolulu BWS Sites	SSOW#.				dma2 () aei	(EAC)						Other:
Source Hostification - Client ID (1 sh ID)	Sample Date	Sample (Sample Type (C=comp,	Sample (w-water, Smooth, Garden)	Field Filtered Perform MS/N SUB (8015 Gas	Sed (101) Bos Fungeable) LL Bos (8015 LL D Bos (8015 LL D					Total Number	Special Instructions/Note:
Sample Identification - Ordina (Lab 12)	\backslash	V	Preservation Code:	on Code:	X						X	
HALAWA WELLS UNITS 1 & 2 (380-57979-1)	8/2/23	10:00 Hawaiian		Water		×					9	See Attached Instructions
Z TB: HALAWA WELLS UNITS 1 & 2 (380-57979-2)	8/2/23	10:00 Hawaiian		Water		×					2	2 See Attached Instructions
											89 H	

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to accreditation status should be brought to currently maintain accreditation in the State of Ongin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditations are current to date, return the signed Chain of Oustody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification		S	ample Disposal (A fee may be asses	les	1 month)
Unconfirmed			Return To Client Dispo	Disposal By Lab Archive For	Months
Deliverable Requested: I, III, IV, Other (specify)	Primary Deliverable Rank: 2	S	Requ		
Empty Kit Relinquished by:	Date:	Time		Method of Shipment:	
Relinquished by:	819 Pr 1100	Company	Received by/	San 100	Company €ma≯
Relinquished by: (Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) ${}^{\circ}\!C$ and Other Remarks: $\left. H.H \middle/ \!$	ı	CF 0.2 Dags 2 of 32

REFERENCE: EMAX-SM02 Rev. 12 SAMPLE RECEIPT FORM 1

Type of De	elivery		Airbill / Tracki	ng Number	ECN 23H064	
□ Fedex □ UPS □ GSO	☐ Others		The state of the s		read-press.	amora
□ EMAX Courier ☑ Client Deli	very				Date 08 09 23	Time 1100
COCINCRECTION	71					
COC INSPECTION Client Name	Client PM/FC		☐ Sampler Name	Sampling Date/Time	Sample ID	D ∕Matrix
Address	Tel # / Fax #		☐ Courier Signature	Analysis Required	Preservative (if any)	□/TAT
1	•	nnead	☐ From Superfund Site	☐ Rad screening required	in any)	W 17.1
Safety Issues (if any)	☐ High concentrations exp	ectea	☐ From Superfulio Site	□ Kao screening required		
Note:	1-1-1-1-1					
PACKAGING INSPECTION				-	* .	l.
Container	Cooler		□ Box	☐ Other		
Condition Correction	☐ Custody Seal		☐ Intact	☐ Damaged		
Packaging factor: -02	Bubble Pack		☐ Styrofoam	☐ Popcom	☐ Sufficient	-
Temperatures	Cooler 1 444.2°C		oler 2 "C	☐ Cooler 3°C	☐ Cooler 4°C	☐ Cooler 5 "C
(Cool, ≤6 °C but not frozen)	Cooler 6°C	□ Coo	oler 7°C	☐ Cooler 8°C	☐ Cooler 9 "C	Cooler 10°C
Thermometer:	(A) S/N221852768		B - S/N 22/925379	C - S/N	D - S/N	
Comments: Temperature is ou	it of range. PM was informe	d IMM	EDIATELY.			
Note:				AC - AN		
DISCREPANCIES				****		
LabSampleID	LabSampleContainerID	Code	ClientSample La	abel ID / Information	Corrective	Action
Lausampiero	5,6	72		ndicated on label	RI	4
2	7.8	07	two dates - 7/10	122 8 812 172		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	110	91	TWO OPILES 1710	15 6 16 10	$\overline{}$	
		-	two times 15:4	19 & 10:00		
A PRINCIPAL OF THE PRIN						
* .						
				-		
				dolo		
				- CX/7/2)		M alalas
☐ pH holding time requiremen	nt for water samples is 15 m	ins. W	ater samples for pH analy	ysis are received beyond 15	minutes from sampling time.	(7) 10/10 CM
NOTES/OBSERVATIONS						
		COI	10101 1/10/23	•		
SAMPLE MATRIX IS DRINKING	GWATER? DYES D'NO					
	· · · · · · · · · · · · · · · · · · ·					
					Marine Commission of the Commi	
LEGEND:					☐ Continue to next pa	ige.
Code Description- Sample Man	agement	Code	Description-Sample Man	agement	Code Description-Sample Man	
D1 Analysis is not indicated in	1	D13	Out of Holding Time		R1 Proceed as indicated in CO	OC 🗆 Label
(D2) Analysis mismatch COC vs	s 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	
D5 Container -[improper] [leal	king] [broken]	D17	Preservation mismatch CO	OC vs label	R5 Log-in with latest sampling d	ate and time+1 min
D6 Date/Time is not indicated	in	D18	Insufficient chemical prese	ervative	R6 Adjust pH as necessary	
D7 Date/Time mismatch COC	vs label	D19	Insufficient Sample		R7 Filter and preserved as necess	sary
D8 Sample listed in COC is no	ot received		No filtration info for dissol		R8	40
D9 Sample received is not liste	ed in COC	D21	No sample for moisture deter	mination	R9	
D10 No initial/date on correction	ns in COC/label	D22			R10	
D11 Container count mismatch	COC vs received	D23			R11	
D12 Container size mismatch C		D24		\longrightarrow	R12	
REVIEWS:	Jocelyne /) 9			(/0.41.)		MS
Sample Labeling	g SD HS-XMIM	w	SRI	701	PN	01/11/12
REPORT ID: 23HC)	Ďat	e Alba	Dat	
NEFORT ID. 23HU	104		Page 23 of	80 / /	Page	^{5 3} 44 <i>1</i> 241/2023

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EMAX Laboratories, Inc. 3051 Fujita St., Torrance, CA 90505

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.
В	В	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.
*	ж	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.

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LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-57979

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

SDG#: 23H064

REPORT ID: 23H064

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CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-57979

SDG : 23H064

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 08/09/23 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. VGH7H04B - 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. VGH7H04L/VGH7H04C 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 H064-01M/H064-01S. 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

	: EUROFINS EATON ANALYTICAL							SDG NO.	SDG NO. : 23H064
Project : 3	380-57979							Tusirimen	. ID : II/
				WATER	ER				
Client	Laboratory	Dilution	96	Analysis	Extraction	Sample	Calibratior	າ Prep.	
Sample ID	Sample ID		Moist	DateTime	DateTime	Data FN	Data FN Batch		Notes
		:	:				:		
MBLK1W		1	W	08/09/2315:02	08/09/2315:02	AH09005A	AH09004A	23VGH7H04	23VGH7H04 Method Blank
CS1W		1	A	08/09/2315:40	08/09/2315:40	AH09006A		23VGH7H04	Lab Control Sample (LCS)
LCD1W		П	N	08/09/2316:18	08/09/2316:18	AH09007A		23VGH7H04	LCS Duplicate
380-57979-1		-	M	08/10/2301:06	08/10/2301:06	AH09021A		23VGH7H04	Field Sample
380-57979-1MS	H064-01M	г	NA	08/10/2301:44	08/10/2301:44	AH09022A		23VGH7H04	Matrix Spike Sample (MS)
380-57979-1MSL		1	W	08/10/2302:22	08/10/2302:22	AH09023A		23VGH7H04	MS Duplicate (MSD)
380-57979-2		1	¥	08/10/2302:59	08/10/2302:59	AH09024A	AH09015A	23VGH7H04	Field Sample

REPORT ID: 23H064

SAMPLE RESULTS

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 08/02/23 10:00

 Project
 : 380-57979
 Date Received: 08/09/23

 Batch No.
 : 23H064
 Date Extracted: 08/10/23 01:06

 Sample ID
 : 380-57979-1
 Date Analyzed: 08/10/23 01:06

Lab Samp ID: H064-01 Dilution Factor: 1

Lab File ID: AH09021A Matrix: WATER
Ext Btch ID: 23VGH7H04 % Moisture: NA
Calib. Ref.: AH09015A Instrument ID: H7

RESULTS RL MDL

PARAMETERS (mg/L) (mg/L) (mg/L)

GASOLINE ND 0.020 0.010

SURROGATE PARAMETERS RESULT SPK_AMT *RECOVERY QC LIMIT

Bromofluorobenzene 0.0358 0.0400 90 60-140

Bromofluorobenzene 0.0358 0.0400 90 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 Analyzed by : SCarva

Prepared by : SCerva Analyzed by : SCerva

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 08/02/23 10:00 Project : 380-57979 Date Received: 08/09/23

Batch No. : 23H064 Date Extracted: 08/10/23 02:59
Sample ID : 380-57979-2 Date Analyzed: 08/10/23 02:59

Lab Samp ID: H064-02 Dilution Factor: 1
Lab File ID: AH09024A Matrix: WATER
Ext Btch ID: 23VGH7H04 % Moisture: NA
Calib. Ref.: AH09015A Instrument ID: H7

RESULTS RL MDL PARAMETERS (mg/L) (mg/L) (mg/L) GASOLINE ND 0.020 0.010 SURROGATE PARAMETERS RESULT SPK_AMT %RECOVERY QC LIMIT -----Bromofluorobenzene 0.0351 0.0400 88 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

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

Client	: EUROFINS EATON ANALYTICAL	Date Collected: 08/09/23 15:02
Dundont	200 57070	Data Danadurad 00 (00 (02

 Project : 380-57979
 Date Received: 08/09/23

 Batch No. : 23H064
 Date Extracted: 08/09/23 15:02

 Sample ID : MBLK1W
 Date Analyzed: 08/09/23 15:02

Lab Samp ID: VGH7H04B Dilution Factor: 1
Lab File ID: AH09005A Matrix: WATER
Ext Btch ID: 23VGH7H04 % Moisture: NA
Calib. Ref.: AH09004A Instrument ID: H7

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	0.0362	0.0400	91	60-140

Notes:

REPORT ID: 23H064

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

PROJECT : 380-579 BATCH NO. : 23H064 METHOD : 5030B/8									
MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : MBLK1W LAB SAMPLE ID : VGH7H04 LAB FILE ID : AH09009 DATE PREPARED : 08/09/2 DATE ANALYZED : 08/09/2 PREP BATCH : 23VGH7H CALIBRATION REF: AH09004	5A 23 15:02 23 15:02 H04		1 LCS1W VGH7H04L AH09006A 08/09/23 1 08/09/23 1 23VGH7H04 AH09004A		% MOISTURE 1 LCD1W VGH7H04C AH09007A 08/09/23 1 08/09/23 1 23VGH7H04 AH09004A	.6:18			
ACCESSION:									
PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	(mg/L)	(%)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.461		0.428	86	7	60-130	30
SURROGATE PARAMETER Bromofluorobenzene		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%) 	LCDResult (mg/L)	LCDRec (%) 		QCLimit (%) 70-130	

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

CLIENT

: EUROFINS EATON ANALYTICAL

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT

: 380-57979

BATCH NO.

: 23H064

METHOD

: 5030B/8015B

MATRIX

SAMPLE ID

: WATER

DILUTION FACTOR: 1

: 380-57979-1

LAB SAMPLE ID : H064-01

LAB FILE ID : AH09021A

DATE PREPARED : 08/10/23 01:06 DATE ANALYZED : 08/10/23 01:06

PREP BATCH

: 23VGH7H04

CALIBRATION REF: AH09015A

H064-01M

AH09022A

08/10/23 01:44 23VGH7H04

380-57979-1MS

08/10/23 01:44

AH09015A

% MOISTURE:NA

380-57979-1MSD

H064-01S AH09023A

08/10/23 02:22 08/10/23 02:22

23VGH7H04 AH09015A

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	0.437	87	0.500	0.427	85	2	50-130	30
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0452	113	0.0400	0.0432	108		60-140	

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

REPORT ID: 23H064

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LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-57979

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 23H064

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-57979

SDG : 23H064

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 08/09/23 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. DSH017WB - 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. DSH017WL/DSH017WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

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

Sample Analysis

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

REPORT ID: 23H064

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-57979

SDG : 23H064

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 08/09/23 to be analyzed for 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. DSH017WB - 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. J5H017WL/J5H017WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

Surrogate

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

Sample Analysis

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

REPORT ID: 23H064

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-57979

SDG : 23H064

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 08/09/23 to be analyzed for 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.

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. DSH017WB 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. J8H017WL/J8H017WC were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG.

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.

Client Project	: EUROFINS EATON ANALYTICAL : 380-57979				-			SDG NO. Instrume	SDG NO. : 23H064 Instrument ID : D5
				WAT	WATER				
Client	Laboratory	Dilution	> e	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID Factor	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
						:		:	
MBLK1W	DSH017WB	1	NA	08/16/2318:21	08/14/2310:30	LH16016A	LH16009A	23DSH017W	23DSH017W Method Blank
LCS1W	DSH017WL	1	NA	08/16/2318:40	08/14/2310:30	LH16017A	LH16009A	23DSH017W	23DSH017W Lab Control Sample (LCS)
LCD1W	DSH017WC	1	¥	08/16/2318:58	08/14/2310:30	LH16018A	LH16009A	23DSH017W	3DSH017W LCS Duplicate
380-57979-1		1	M	08/16/2321:27	08/14/2310:30	LH16026A	LH16009A	23DSH017W	23DSH017W Field Sample

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

Client Project	: EUROFINS EATON ANALYTICAL : 380-57979							SDG NO. : 23H064 Instrument ID : D5
				WATER	.		-	
Client	_	Dilution	96	Analysis	Extraction	Sample	Calibration Prep.	n Prep.
Sample ID		Sample ID Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes
			:				:	
MBLK1W		1	NA	08/16/2318:21	08/14/2310:30	LH16016A	LH16010A	23DSH017W Method Blank
LCS1W		П	NA	08/16/2319:17	08/14/2310:30	LH16019A	LH16010A	23DSH017W Lab Control Sample (LCS)
LCD1W	J5H017WC	П	¥	08/16/2319:36	08/14/2310:30	LH16020A	LH16010A	23DSH017W LCS Duplicate
380-57979-1		1	N	08/16/2321:27	08/14/2310:30	LH16026A	LH16010A	23DSH017W Field Sample

FN · Filename % Moist · Percent Moist

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

Project : Client Sample ID MBLKIW	380-57979	چ م	Dilution Factor	% Moist NA	MATER Analysis DateTime	ER Extraction DateTime	Sample Data FN	Calibration Prep.	Instrument Prep. Batch 230SH017W	Instrument ID : D5 Prep. Batch Notes 230SH017W Method Blank
SIW		7WL	,-	W	08/16/2319:54	08/14/2310:30	LH16021A	LH16011A	23DSH017W	Lab Control Sample (LCS)
DIW		7WC	П	M	08/16/2320:13	08/14/2310:30	LH16022A	LH16011A	23DSH017W	LCS Duplicate
0-57979-		01	1	A	08/16/2321:27	08/14/2310:30	LH16026A	LH16011A	23DSH017W	Field Sample

SAMPLE RESULTS

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METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 08/02/23 10:00

Project : 380-57979 Date Received: 08/09/23

Batch No. : 23H064 Date Extracted: 08/14/23 10:30 Sample ID : 380-57979-1 Date Analyzed: 08/16/23 21:27

Lab Samp ID: 23H064-01 Dilution Factor: 1

Lab File ID: LH16026A Matrix: WATER Ext Btch ID: 23DSH017W % Moisture: NA Calib. Ref.: LH16009A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.026	0.013	
Motor Oil	ND	0.052	0.026	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.359	0.525	68	60-130
Hexacosane	0.112	0.131	85	60-130

Notes:

Parameter H-C Range C10-C24 Diesel Motor 0il C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 950ml

Final Volume : 5ml

Prepared by

: RGalan

Analyzed by : SDeeso

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 08/02/23 10:00

: 380-57979 Date Received: 08/09/23 Project

Batch No. : 23H064 Date Extracted: 08/14/23 10:30 Sample ID : 380-57979-1 Date Analyzed: 08/16/23 21:27

Lab Samp ID: 23H064-01 Dilution Factor: 1 Lab File ID: LH16026A Matrix: WATER

Ext Btch ID: 23DSH017W % Moisture: NA Calib. Ref.: LH16010A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.052	0.026	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.359 0.112	0.525 0.131	68 85	60-130 60-130

Notes:

: Reporting Limit H-C Range Parameter

JP5 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 950ml Final Volume : 5ml

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 08/02/23 10:00

Project : 380-57979 Date Received: 08/09/23 Batch No. : 23H064 Date Extracted: 08/14/23 10:30

Sample ID : 380-57979-1 Date Analyzed: 08/16/23 21:27 Lab Samp ID: 23H064-01 Dilution Factor: 1

Lab File ID: LH16026A Matrix: WATER Ext Btch ID: 23DSH017W % Moisture: NA Calib. Ref.: LH16011A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.052	0.026	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.359 0.112	0.525 0.131	68 85	60-130 60-130

Notes:

RL : Reporting Limit Parameter H-C Range JP8 C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 950m1

Final Volume : 5m1 Prepared by : RGalan Analyzed by : SDeeso

QC SUMMARIES

Client : EUROFINS EAT Project : 380-57979 Batch No. : 23H064 Sample ID : MBLK1W Lab Samp ID: DSH017WB Lab File ID: LH16016A	ON ANALYTICAL	Date Date Date	e Received: Extracted: e Analyzed: ion Factor: Matrix:	08/14/23 10:30 08/16/23 18:21 1 WATER
Ext Btch ID: 23DSH017W Calib. Ref.: LH16009A			Moisture: trument ID:	
PARAMETERS		(mg/L)	(mg/L)	
Diesel	ND			-
Motor 0il	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT			
Bromobenzene	0.379	0.500	76	60-130
Hexacosane	0.114	0.125	91	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

: RGalan

Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT

: 380-57979

BATCH NO.

: 23H064

METHOD

: 3520C/8015B

MATRIX

: WATER

% MOISTURE:NA

DILUTION FACTOR: 1

: MBLK1W

LCS1W

SAMPLE ID

LAB SAMPLE ID : DSH017WB

DSH017WL

LCD1W

LAB FILE ID : LH16016A

LH16017A

DSH017WC LH16018A

DATE ANALYZED : 08/16/23 18:21

DATE PREPARED : 08/14/23 10:30

08/14/23 10:30 08/16/23 18:40

08/14/23 10:30 08/16/23 18:58

PREP BATCH CALIBRATION REF: LH16009A

: 23DSH017W

23DSH017W LH16009A

23DSH017W LH16009A

ACCESSION:

MBResult SpikeAmt LCSResult LCSRec SpikeAmt LCDResult LCDRec RPD QCLimit MaxRPD **PARAMETERS** (mg/L) (mg/L) (mg/L) (%) (mg/L) (mg/L) (%) (%) (%) (%) Diesel ND 2,50 2.73 109 2.50 2.76 110 50-130 30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.414	83	0.500	0.398	80	60-130
Hexacosane	0.125	0.133	106	0.125	0.125	100	60-130

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

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 08/14/23 10:30

Project : 380-57979 Date Received: 08/14/23

Batch No. : 23H064 Date Extracted: 08/14/23 10:30 Sample ID : MBLK1W Date Analyzed: 08/16/23 18:21

Lab Samp ID: DSH017WB Dilution Factor: 1 Lab File ID: LH16016A Matrix: WATER

Ext Btch ID: 23DSH017W % Moisture: NA Calib. Ref.: LH16010A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.379 0.114	0.500 0.125	76 91	60-130 60-130

Notes:

: Reporting Limit Parameter H-C Range JP5 C8-C18

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 : RGalan Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 380-57979 : 23H064

METHOD

: 3520C/8015B

MATRIX

: WATER

DILUTION FACTOR: 1

1

% MOISTURE:NA

SAMPLE ID : MBLK1W LAB SAMPLE ID : DSH017WB

CALIBRATION REF: LH16010A

LCS1W J5H017WL 1 LCD1W

LAB FILE ID

: LH16016A

LH16019A

J5H017WC LH16020A

DATE ANALYZED : 08/16/23 18:21

DATE PREPARED : 08/14/23 10:30

08/14/23 10:30

08/14/23 10:30 08/16/23 19:36

PREP BATCH

: 23DSH017W

08/16/23 19:17 23DSH017W LH16010A

23DSH017W LH16010A

ACCESSION:

MBResult SpikeAmt LCSResult LCSRec SpikeAmt LCDResult LCDRec RPD QCLimit MaxRPD PARAMETERS (mg/L) (mg/L) (mg/L) (%) (mg/L) (mg/L) (%) (%) (%) (%) JP5 ND 2.50 2.15 86 2.50 2.06 82 30-160 30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
*******	• • • • • • • • • • • • • • • • • • • •						
Bromobenzene	0.500	0.416	83	0.500	0.402	80	60-130
Hexacosane	0.125	0.113	90	0.125	0.121	97	60-130

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

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 08/14/23 10:30

Project : 380-57979 Date Received: 08/14/23

Batch No. : 23H064 Date Extracted: 08/14/23 10:30 Sample ID : MBLK1W Date Analyzed: 08/16/23 18:21

Lab Samp ID: DSH017WB Dilution Factor: 1

Lab File ID: LH16016A Matrix: WATER Ext Btch ID: 23DSH017W % Moisture: NA Calib. Ref.: LH16011A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.379 0.114	0.500 0.125	76 91	60-130 60-130

Notes:

: Reporting Limit Parameter H-C Range C8-C18

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 : RGalan Analyzed by : SDeeso

REPORT ID: 23H064

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT

: 380-57979

BATCH NO.

: 23H064

METHOD

: 3520C/8015B

MATRIX :	WATER
DILUTION FACTOR:	1
SAMPLE ID :	MBLK1W
LAB SAMPLE ID :	DSH017WB

% MOISTURE:NA

LCS1W J8H017WL

LCD1W J8H017WC

LAB FILE ID : LH16016A DATE PREPARED : 08/14/23 10:30 LH16021A 08/14/23 10:30 LH16022A 08/14/23 10:30

PREP BATCH CALIBRATION REF: LH16011A

DATE ANALYZED : 08/16/23 18:21 : 23DSH017W

08/16/23 19:54 23DSH017W LH16011A

08/16/23 20:13 23DSH017W LH16011A

ACCESSION:

MBResult SpikeAmt LCSResult LCSRec SpikeAmt LCDResult LCDRec RPD QCLimit MaxRPD PARAMETERS (mg/L) (mg/L) (mg/L) (%) (mg/L) (mg/L) (%) (%) (%) (%) JP8 ND 2.50 2.68 107 2.50 2.60 104 3 30-160 30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec	QCLimit (%)
					• • • • • • • •		
Bromobenzene	0.500	0.492	98	0.500	0.495	99	60-130
Hexacosane	0.125	0.114	91	0.125	0.115	92	60-130

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



September 13, 2023

Rachelle Arada **Eurofins Eaton Analytical** 750 Royal Oaks Drive Suite 100 Monrovia, CA 91016-

Project Name: RED-HILL Project # 38001111 Job # 380-57979-1

Physis Project ID: 1407003-432

Dear Rachelle,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 8/9/2023. 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 Misty Mercier 714 602-5320 Extension 202 mistymercier@physislabs.com



PROJECT SAMPLE LIST

Eurofins Eaton Analytical

RED-HILL Project # 38001111 Job # 380-57979-1

PHYSIS Project ID: 1407003-432

Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
109447	HALAWA WELLS UNITS 1 & 2	380-57979-1	8/2/2023	10:00	Samplewater	Not Specified



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

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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
В	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
Н	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
М	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

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CASE NARRATIVE

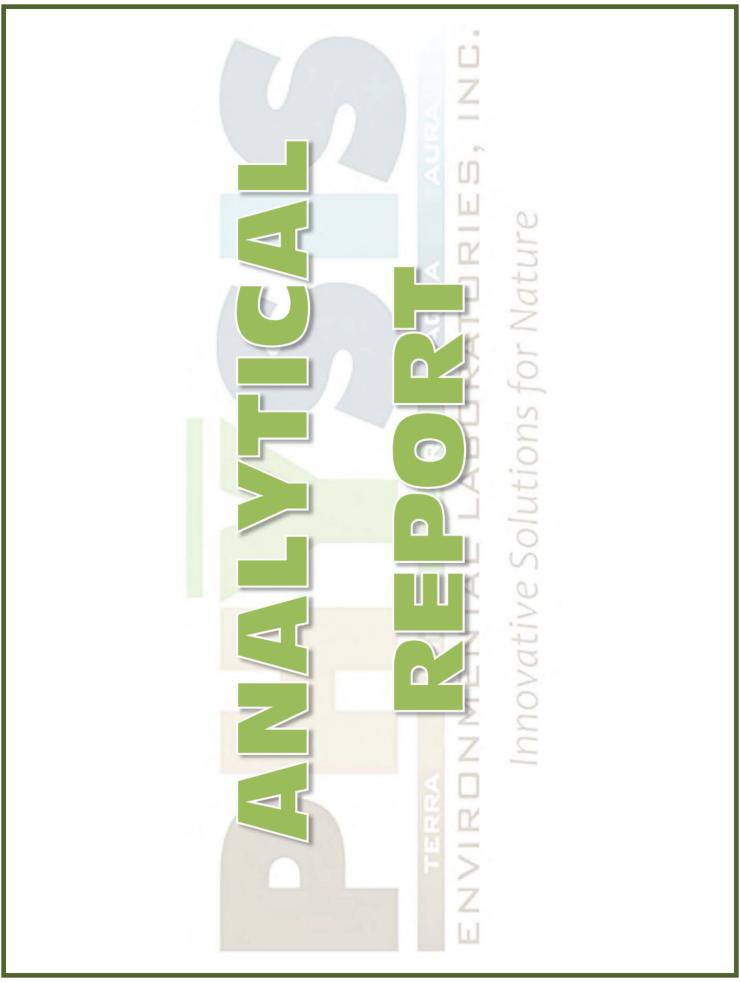
QUALIFIER NOTES

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.







Project: RED-HILL Project # 38001111 Job # 380-57979-1

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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: 109447-R1 HALAWA WELLS UNITS 1 & 2 380-5 Matrix: Samplewater Sampled: 02-Aug-23 10:00 Received: 09-Aug-20 10:00									09-Aug-23	
Disalicylidenepropanediamine	EPA 625.1	μg/L	ND		0.05	0.1	Total	0-42030	09-Aug-23	06-Sep-23

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Project: RED-HILL Project # 38001111 Job # 380-57979-1

Polynuclear Aromatic Hydrocarbons

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ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE Batch ID	Date Processed	Date Analyzed
Sample ID: 109447-R1	HALAWA WELLS UNIT	S 1 & 2 380-5 M	atrix: Sampl	ewate	r		Sampled:	02-Aug-23 10:00	Received:	09-Aug-23
(d10-Acenaphthene)	EPA 625.1	% Recovery	90	1			Total	O-42030	09-Aug-23	06-Sep-23
(d10-Phenanthrene)	EPA 625.1	% Recovery	95	1			Total	0-42030	09-Aug-23	06-Sep-23
(d12-Chrysene)	EPA 625.1	% Recovery	87	1			Total	O-42030	09-Aug-23	06-Sep-23
(d12-Perylene)	EPA 625.1	% Recovery	93	1			Total	O-42030	09-Aug-23	06-Sep-23
(d8-Naphthalene)	EPA 625.1	% Recovery	82	1			Total	O-42030	09-Aug-23	06-Sep-23
1-Methylnaphthalene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23
1-Methylphenanthrene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23
2,3,5-Trimethylnaphthalene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23
2,6-Dimethylnaphthalene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23
2-Methylnaphthalene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23
Acenaphthene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23
Acenaphthylene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Anthracene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Benz[a]anthracene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Benzo[a]pyrene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Benzo[b]fluoranthene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Benzo[e]pyrene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Benzo[g,h,i]perylene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Benzo[k]fluoranthene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23
Biphenyl	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
Chrysene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
D benz[a,h]anthracene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
D benzo[a,l]pyrene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23
D benzothiophene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23

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Project: RED-HILL Project # 38001111 Job # 380-57979-1

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	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-42030	09-Aug-23	06-Sep-23				
Fluorene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23				
Indeno[1,2,3-cd]pyrene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23				
Naphthalene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23				
Perylene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23				
Phenanthrene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	O-42030	09-Aug-23	06-Sep-23				
Pyrene	EPA 625.1	μg/L	ND	1	0.001	0.005	Total	0-42030	09-Aug-23	06-Sep-23				

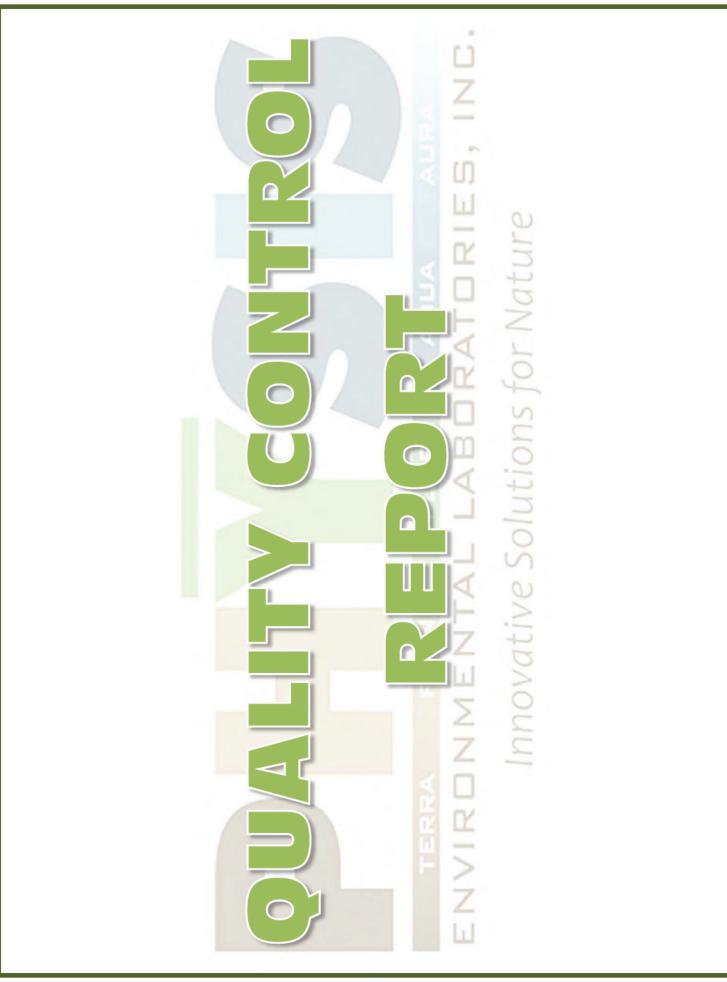
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Project: RED-HILL Project # 38001111 Job # 380-57979-1

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Ва	ase/Ne	utra	l Extra	ıcta	ble C	omp	ound	S		QUA	LITY CO	ONTRO	OL REPO	DRT
ANALYTE	FRAC	TION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE		ACCURACY		PRECISION	QA CODEc
								LEVEL	RESULT	%	LIMITS	2	LIMITS	
Sample ID: 1	Sample ID: 109446-B1 QAQC Procedural Blank Matrix: BlankMatrix Sampled: Received:													
		Batch ID:	0-42030	1	Prepared:	07-Aug-23		Analyzed:	o6-Sep-23					
Disalicylidenepropaned	liamin Tot	al	ND	1	0.05	0.1	μg/L							
Sample ID: 1	109446-BS1	QAQ	C Procedur	al Blar	nk		Matrix:	BlankMatr	ix Sa	mpled:			Received:	
	Metho	od: EPA 625.1				Batch ID:	0-42030	1	Prepared:	07-Aug-23		Analyzed:	o6-Sep-23	
Disalicylidenepropaned	liamin Tot	al	54.4	1	0.05	0.1	μg/L	50	0	109	50 - 150%	PASS		
								-1 1			•			•

Sample ID: 109446-	nk		Matrix: Bl	ankMatri:	κ Sa	mpled:		I	Received:			
		Method: EPA 6	25.1			Batch ID: O-4	12030	P	repared: o	7-Aug-23		Analyzed: o6-Sep-23
Disalicylidenepropanediamin	Total	52	1	0.05	0.1	μg/L	50	0	104	50 - 150% PASS	5	30 PASS

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Project: RED-HILL Project # 38001111 Job # 380-57979-1

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Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE SOURCE	ACCURACY	PRECISION	QA CODEc
							LEVEL RESULT	% LIMITS	% LIMITS	

							LEVEL	RESULT	%	LIMITS		% LIN	NITS
Sample ID: 109446	5-B1 (QAQC Procedu	ıral Blank			Matrix: Bla	nkMatr	ix San	npled:			Recei	ved:
(d10-Acenaphthene)	Total	Method: EPA 625 104	.1			Batch ID: O-42 % Recovery	2030 100	Pro	epared: 0	07-Aug-23 27 - 133%	PASS	Ana	yzed: o6-Sep-23
(d10-Phenanthrene)	Total	105	1			% Recovery	100		105	43 - 129%	PASS		
(d12-Chrysene)	Total	101	1			% Recovery	100		101	52 - 144%	PASS		
(d12-Perylene)	Total	109	1			% Recovery	100		109	36 - 161%	PASS		
(d8-Naphthalene)	Total	96	1			% Recovery	100		96	25 - 125%	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							

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Project: RED-HILL Project # 38001111 Job # 380-57979-1

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Poly	ynuclear	Aroma	tic	Hydr	ocar	bons		C	QU/	ALITY CON	TROL	REPO	RT
ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE		ACCURACY	PRI	ECISION	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							

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Project: RED-HILL Project # 38001111 Job # 380-57979-1

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Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

					LEVEL RESULT	% LIMITS	% LIMITS	
ANALYTE	FRACTION	RESULT DE	F MDL RL	UNITS	SPIKE SOURCE	ACCURACY	PRECISION	QA CODEc

							LEVEL	KESULI	%	LIMITS		% LIMITS
Sample ID: 109446	-BS1	QAQC Procedura	al Blank			Matrix: Bla	ankMatrix	c San	npled:			Received:
		Method: EPA 625.1				Batch ID: O-4	2030	Pro	epared: o	. 0 -		Analyzed: o6-Sep-23
(d10-Acenaphthene)	Total	103	1			% Recovery	100	0	103	27 - 133%	PASS	
(d10-Phenanthrene)	Total	104	1			% Recovery	100	0	104	43 - 129%	PASS	
(d12-Chrysene)	Total	102	1			% Recovery	100	0	102	52 - 144%	PASS	
(d12-Perylene)	Total	110	1			% Recovery	100	0	110	36 - 161%	PASS	
(d8-Naphthalene)	Total	95	1			% Recovery	100	0	95	25 - 125%	PASS	
1-Methylnaphthalene	Total	0.483	1	0.001	0.005	μg/L	0.5	0	97	31 - 128%	PASS	
1-Methylphenanthrene	Total	0.519	1	0.001	0.005	μg/L	0.5	0	104	66 - 127%	PASS	
2,3,5-Trimethylnaphthalene	Total	0.522	1	0.001	0.005	μg/L	0.5	0	104	55 - 122%	PASS	
2,6-Dimethylnaphthalene	Total	0.507	1	0.001	0.005	μg/L	0.5	0	101	48 - 120%	PASS	
2-Methylnaphthalene	Total	0.492	1	0.001	0.005	μg/L	0.5	0	98	47 - 130%	PASS	
Acenaphthene	Total	0.504	1	0.001	0.005	μg/L	0.5	0	101	53 - 131%	PASS	
Acenaphthylene	Total	0.533	1	0.001	0.005	μg/L	0.5	0	107	43 - 140%	PASS	
Anthracene	Total	0.509	1	0.001	0.005	μg/L	0.5	0	102	58 - 135%	PASS	
Benz[a]anthracene	Total	0.455	1	0.001	0.005	μg/L	0.5	0	91	55 - 145%	PASS	
Benzo[a]pyrene	Total	0.538	1	0.001	0.005	μg/L	0.5	0	108	51 - 143%	PASS	
Benzo[b]fluoranthene	Total	0.499	1	0.001	0.005	μg/L	0.5	0	100	46 - 165%	PASS	
Benzo[e]pyrene	Total	0.514	1	0.001	0.005	μg/L	0.5	0	103	42 - 152%	PASS	
Benzo[g,h,i]perylene	Total	0.52	1	0.001	0.005	μg/L	0.5	0	104	63 - 133%	PASS	
Benzo[k]fluoranthene	Total	0.512	1	0.001	0.005	μg/L	0.5	0	102	56 - 145%	PASS	
Biphenyl	Total	0.503	1	0.001	0.005	μg/L	0.5	0	101	56 - 119%	PASS	
Chrysene	Total	0.488	1	0.001	0.005	μg/L	0.5	0	98	56 - 141%	PASS	
Dibenz[a,h]anthracene	Total	0.525	1	0.001	0.005	μg/L	0.5	0	105	55 - 150%	PASS	
Dibenzo[a,l]pyrene	Total	0.413	1	0.001	0.005	μg/L	0.5	0	83	50 - 150%	PASS	
Dibenzothiophene	Total	0.498	1	0.001	0.005	μg/L	0.5	0	100	46 - 126%	PASS	

1904 E. Wright Circle, Anaheim CA 92806

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fax: (714) 602-5321

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CA ELAP #2769

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13



Project: RED-HILL Project # 38001111 Job # 380-57979-1

Innovative Solutions for Nature

Poly	ynuclear <i>i</i>	Aroma	itic	Hydr	ocar	bons		C	UAL	ITY CON	TRO	L REPO	RT
ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	Α	CCURACY	Р	RECISION	QA CODEc
							LEVEL	RESULT	%	LIMITS	%	LIMITS	
Fluoranthene	Total	0.501	1	0.001	0.005	μg/L	0.5	0	100	60 - 146% PAS	S		
Fluorene	Total	0.529	1	0.001	0.005	μg/L	0.5	0	106	58 - 131% PAS	S		
Indeno[1,2,3-cd]pyrene	Total	0.503	1	0.001	0.005	μg/L	0.5	0	101	50 - 151% PAS	S		
Naphthalene	Total	0.472	1	0.001	0.005	μg/L	0.5	0	94	41 - 126% PAS	S		
Perylene	Total	0.525	1	0.001	0.005	μg/L	0.5	0	105	48 - 141% PAS	S		
Phenanthrene	Total	0.502	1	0.001	0.005	μg/L	0.5	0	100	67 - 127% PAS	S		
Pyrene	Total	0.51	1	0.001	0.005	μg/L	0.5	0	102	54 - 156% PAS	S		

qcb - 5 of 7

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CA ELAP #2769



ACCURACY

LIMITS

Project: RED-HILL Project # 38001111 Job # 380-57979-1

lovative solutions for Nature

FRACTION

Total

Total

Total

Total

Total

Total

Total

ANALYTE

Polynuclear Aromatic Hydrocarbons

RESULT DF MDL

RL

UNITS

SPIKE SOURCE

LEVEL RESULT

QUALITY CONTROL REPORT

PRECISION

LIMITS

									.0				
Sample ID: 109446	S-BS2	QAQC Procedur	al Blank			Matrix: Bla	nkMatrix	Sa	mpled:				Received:
		Method: EPA 625.1				Batch ID: O-42	2030	1	Prepared: o	7-Aug-23			Analyzed: o6-Sep-23
(d10-Acenaphthene)	Total	109	1			% Recovery	100	0	109	27 - 133%	PASS	6	30 PASS
(d10-Phenanthrene)	Total	104	1			% Recovery	100	0	104	43 - 129%	PASS	0	30 PASS
(d12-Chrysene)	Total	101	1			% Recovery	100	0	101	52 - 144%	PASS	1	30 PASS
(d12-Perylene)	Total	109	1			% Recovery	100	0	109	36 - 161%	PASS	1	30 PASS
(d8-Naphthalene)	Total	104	1			% Recovery	100	0	104	25 - 125%	PASS	9	30 PASS
1-Methylnaphthalene	Total	0.52	1	0.001	0.005	μg/L	0.5	0	104	31 - 128%	PASS	7	30 PASS
1-Methylphenanthrene	Total	0.495	1	0.001	0.005	μg/L	0.5	0	99	66 - 127%	PASS	5	30 PASS
2,3,5-Trimethylnaphthalene	Total	0.525	1	0.001	0.005	μg/L	0.5	0	105	55 - 122%	PASS	1	30 PASS
2,6-Dimethylnaphthalene	Total	0.527	1	0.001	0.005	μg/L	0.5	0	105	48 - 120%	PASS	4	30 PASS
2-Methylnaphthalene	Total	0.523	1	0.001	0.005	μg/L	0.5	0	105	47 - 130%	PASS	7	30 PASS
Acenaphthene	Total	0.524	1	0.001	0.005	μg/L	0.5	0	105	53 - 131%	PASS	4	30 PASS
Acenaphthylene	Total	0.54	1	0.001	0.005	μg/L	0.5	0	108	43 - 140%	PASS	1	30 PASS
Anthracene	Total	0.509	1	0.001	0.005	μg/L	0.5	0	102	58 - 135%	PASS	0	30 PASS
Benz[a]anthracene	Total	0.425	1	0.001	0.005	μg/L	0.5	0	85	55 - 145%	PASS	7	30 PASS
Benzo[a]pyrene	Total	0.515	1	0.001	0.005	μg/L	0.5	0	103	51 - 143%	PASS	5	30 PASS
Benzo[b]fluoranthene	Total	0.487	1	0.001	0.005	μg/L	0.5	0	97	46 - 165%	PASS	3	30 PASS
Benzo[e]pyrene	Total	0.505	1	0.001	0.005	μg/L	0.5	0	101	42 - 152%	PASS	2	30 PASS

μg/L

μg/L

μg/L

μg/L

μg/L

μg/L

μg/L

1904 E. Wright Circle, Anaheim CA 92806

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Dibenz[a,h]anthracene

Dibenzo[a,l]pyrene

Dibenzothiophene

Biphenyl

Chrysene

main: (714) 602-5320

0.512

0.483

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0.499

fax: (714) 602-5321

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CA ELAP #2769

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PASS

PASS

30 PASS

30 PASS

30 PASS

30 PASS

PASS

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63 - 133% PASS

56 - 145% PASS

56 - 119% PASS

56 - 141% PASS

55 - 150% PASS

50 - 150% PASS

46 - 126% PASS

2

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5

6

QA CODEc

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Project: RED-HILL Project # 38001111 Job # 380-57979-1

Innovative Solutions for Nature

1904 E. Wright Circle, Anaheim CA 92806

main: (714) 602-5320

fax: (714) 602-5321

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Poly	ynuclear <i>i</i>	Aroma	itic	Hydr	ocarl	bons		C	UAI	LITY CONT	ROL	REPORT	
ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE	SOURCE	P	ACCURACY	PR	ECISION QA COE)Ec
							LEVEL	RESULT	%	LIMITS	%	LIMITS	
Fluoranthene	Total	0.479	1	0.001	0.005	μg/L	0.5	0	96	60 - 146% PASS	4	30 PASS	
Fluorene	Total	0.527	1	0.001	0.005	μg/L	0.5	0	105	58 - 131% PASS	1	30 PASS	
Indeno[1,2,3-cd]pyrene	Total	0.485	1	0.001	0.005	μg/L	0.5	0	97	50 - 151% PASS	4	30 PASS	
Naphthalene	Total	0.502	1	0.001	0.005	μg/L	0.5	0	100	41 - 126% PASS	6	30 PASS	
Perylene	Total	0.509	1	0.001	0.005	μg/L	0.5	0	102	48 - 141% PASS	3	30 PASS	
Phenanthrene	Total	0.502	1	0.001	0.005	μg/L	0.5	0	100	67 - 127% PASS	0	30 PASS	
Pyrene	Total	0.484	1	0.001	0.005	μg/L	0.5	0	97	54 - 156% PASS	5	30 PASS	

qcb - 7 of 7

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CA ELAP #2769

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Sample ID: 109447

Ī		Area				
	Retention	(% of	Concentration			Match Quality
	Time	total)	(ng/L)	Library/ID	Cas Number	(%)
Ī	34.0433	6.4817	1111	Anthracene-D10-	1719-06-8	96
	10.2478	1.8839	323	1,5-Heptadien-4-one, 3,3,6-trimethyl-	546-49-6	91

Concentration estimated using the response for Anthracene-d10

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14

Sample ID: Lab Blank B1_42030

	Area				
Retention	(% of	Concentration			Match Quality
Time	total)	(ng/L)	Library/ID	Cas Number	(%)
34.0478	5.4189	1111	Anthracene-D10-	1719-06-8	95
10.2503	1.7825	365	1,5-Heptadien-4-one, 3,3,6-trimethyl-	546-49-6	90

Concentration estimated using the response for Anthracene-d10

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Chain of Custody Record

Pomona, CA 91768-2642 Phone: 626-386-1100	c	hain or	Chain of Custody Record	Record				** entotins	Environment Testing
Client Information (Sub Contract Lab)	Sampler:		La Aı	Lab PM: Arada, Rachelle		Carrier Tracking No(s):	0(\$):	380-68727.1	
	Phone:		20 T	E-Mail: Rachelle.Arada	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: Hawaii		Page: Page 1 of 1	
Company: Physis Environmental Laboratories				Accreditations Re State - Hawaii	cereditations Required (See note): tate - Hawaii			Job #: 380-57979-1	
Address: 1904 Wright Circle,	Due Date Requested: 8/22/2023	Ī			Analysis	Requested		Preservation Codes:	M - Hexane
City: Anaheim State, Zip:	TAT Requested (days):	8):		АН				B- NaOH C- Zn Acetate D- Nitric Acid	N - None O - AsNaO2 P - Na2O4S
Phone:	PO#							F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4 T - TSP Dodecafydrate
Email:	WO#			0)				1 - fce J - DI Water	V - MCAA
Project Name: RED-HILL	Project #: 38001111			s or I				L, EDA	Y - Trizma Z - other (specify)
Site: Honolulu BWS Sites	SSOW#:			D (Y				Other	
		. s		iltered S m MS/M 25 PAH P LL (EAL)				lumber	
Sample identification - Client ID (Lab iD)	Sample Date	Sample (C	(C=comp, 0=wasta/oil, G=grab) BT=Tissue, Asair	Field F Perfor					Special Instructions/Note:
	X	1	1 57	X				X	
HALAWA WELLS UNITS 1 & 2 (380-57979-1)	8/2/23	Hawaiian	Water	×				2 See Allagried instructions	uctions
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forware currently maintain accreditation in the State of Origin listed above for analysis/hests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC placestory or other instructions will be provided. Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attenting to said compliance to Eurofins Eaton Analytical, LLC.	Analytical, LLC places the ow sis/tests/matrix being analyzed ditations are current to date, n	nership of metho , the samples mu eturn the signed (d, analyte & accreditati st be shipped back to t Shain of Custody attest	on compliance up he Eurofins Eatou ing to said compl	on our subcontract laboratories. T n Analytical, LLC laboratory or other lance to Eurofins Eaton Analytical,	his sample shipment r instructions will be	t is forwarded un provided. Any ct	laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not loratory or other instructions will be provided. Any changes to accreditation status should be brough ton Analytical, LLC.	ded under chain-of-custody. If the laboratory does not Any changes to accreditation status should be brought to
Possible Hazard Identification Unconfirmed				Sample	Sample Disposal (A fee may be a	assessed if sam, Disposal By Lab	ples are reta	e may be assessed if samples are retained longer than 1 month) Disposal By Lab Archive For Mon	month)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	le Rank: 2		Special	Requireme	nts:			
Empty Kit Relinquished by:	0	Date:		Time:		Method of Shipment	pment		
Relinquished by:	Date/fime:/	123	T Company	Received	C. NWADIWE		Dale/Time /23	12:24	
Relinquished by:	Date/Time:		Company	Recei	Received by:	D ₂	Date/Time:		Company
Custody Seals Intact: Custody Seal No.: A Yes A No				Caale	Cooler Temperature(s) °C and Other Remarks:	marks:			Ver: 06/08/2021



Sample Receipt Summary

	Bottle Label Color: NA
Receiving Info	197
Initials Received By:	
2. Date Received: 8/9/23	
3. Time Received: 1224	
4. Client Name: EUROFINS	
5. Courier Information: (Please circle)	
Client • UPS	 Area Fast DRS
 FedEx GSO/GLS 	 Ontrac PAMS
 PHYSIS Driver: 	
i. Start Time:	iii. Total Mileage:
ii. End Time:	
6. Container Information: (Please put the # of o	
• Cooler • Styrofoam Coole	er • Boxes • None
- Carboule) - Carbou Track Con	n(s) • Carboy Cap(s) • Other
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (°C)	y that apply) • Dry Ice • Water • None
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (*0) 1. Initials Inspected By:	y that apply) • Dry Ice • Water • None
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (** **Inspection Info** 1. Initials Inspected By: R9 **Sample Integrity Upon Receipt:	y that apply) • Dry Ice • Water • None C): <u>14-3</u> Used I/R Thermometer #/
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (°C nspection Info 1. Initials Inspected By: COC(s) included and completely filled out	y that apply) • Dry Ice • Water • None C): <u>4-3</u> Used I/R Thermometer #/
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (°CONSECTION INTO 1. Initials Inspected By: 1. COC(s) included and completely filled out	y that apply) • Dry Ice • Water • None C): 4-3 Used I/R Thermometer #/ Vev / No
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (** Initials Inspected By: G ample Integrity Upon Receipt: 1. COC(s) included and completely filled out 2. All samples containers arrived intact	y that apply) • Dry Ice • Water • None C): <u>'4-3</u> Used I/R Thermometer # _/ Vev / No Vev / No Vev / No
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (** Initials Inspected By: G Sample Integrity Upon Receipt: 1. COC(s) included and completely filled out 2. All sample containers arrived intact	y that apply) • Dry Ice • Water • None C): <u>4-3</u> Used I/R Thermometer # _/ Veo / No Les / No Information on COC(s)
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (°CONSECTION INTO 1. Initials Inspected By: 9 ample Integrity Upon Receipt: 1. COC(s) included and completely filled out 2. All sample containers arrived intact	y that apply) • Dry Ice • Water • None C): 4-3 Used I/R Thermometer # Ver / No
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (**Onspection Info**) 1. Initials Inspected By: Gample Integrity Upon Receipt: 1. COC(s) included and completely filled out 2. All sample containers arrived intact	y that apply) • Dry Ice • Water • None C):
7. What type of ice was used: (Please circle any Wet Ice Blue Ice 8. Randomly Selected Samples Temperature (°CO Inspection Info 1. Initials Inspected By:	y that apply) • Dry Ice • Water • None C): <u>'4-3</u> Used I/R Thermometer # _/ Ves / No Formation on COC(s) Formation on COC(s)

Project Iteration ID: 1407003-432

Client Name:

Project Name:

Eurofins Eaton Analytical

380-57979-1

RED-HILL Project # 38001111 Job

P:\Sample Logistics (SL)\SRS

Page 1 of 1

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114

750 Koyai Oaks Dilve Suite 100 Monrovia, CA 91016 Phone (626) 386-1100	0	Chain of Custody Record	1000	<u> </u>	25								
Client Information	Sampler:	1.2 Kg	Valerinoto	Lab PM Arada	Lab PM Arada, Rachelle				Carrier	Carrier Tracking No(s)		COC No. 380-27941-2757	57.2
Cient Contact: Dr. Ron Fenstermacher	Phone: 808-748-5840	1		E-Mail.	E-Mail. Rachelle Arada@et euronisus com	(Met eur	Susino	uo uo	State	State of Origin:		Page.	
Company. Cify & County of Honolulu		ď	PWSID.				An	Analysis Recuested	Pounes	5		Job #:	
Address: 630 South Beretania Street: Chemistry Lab	Due Date Requested:				•••	00	-					Preservation Codes	des 2
City Honolulu	TAT Requested (day	(days):				e	6					A - HCL B - NaOH	
State Zip: HI, 96843	Compliance Project:	o No) + ЛС	(EAL)		(EAL)				D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3
Phone: 808-748-5091 (tel)	Po# C20525101 exp	cp 05312023		Ī		(e)	sЭП	r) (əlq				F - MeOH G - Amchior	
Email riensternacher@hbws.org	WO#:				(0)	dagnu	PLUS.						
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill	Preject #: 38001111				110 80	i Gas (f	snidsz					K-EDTA L-EDA	Y - Trizma Z - other (specify)
šie-	SSOW#:				W as	- 801	(QO)		•			Other:	
Samole Identification	Sample Date	Sample (6	Sample Type (C=comp,		iold Filtared : MSM myone TOASTNOORU:	TOASTNOOSU	25.2_PREC - (N	TOARTNOOBU	33 - Elytena IIA			redmuk lato	
	X	+		7	×	8 02	9	-	9 2				Special Instructions/Note
MOANALUA WELLS					1			-					
AIEA GULCH WELLS PUMP2	3/2/2023	88	\$	Water	123	2	2	\parallel	\parallel		\prod	Pyran	7
AIEA WELLS PUMPS 1&2 (260)	2/2023	1130	H	Water	67	2	7	H	Ħ			Sumo	1
HALAWA WELLS UNITS 1&2	8/21/2023	0001	5	Water	7	2	7					Pun	1
							_						
FB MOANALUA WELLS				Water						200	25		
FB-AIEA GULCH WELLS PUMP2	8/2/2023			Water		4	1-2	9/17/2	50		834		
FB-AIEA WELLS PUMPS 1&2 (260)	8/2/2023			Water		1		<u> </u>		ä	3		
FB HALAWA WELLS UNITS 1&2	8/2/2023			Water		2		-	F	380-57979 COC	9 COC		
										+	Ŧ		
dentification			1	1	Sampl	e Dispos	Sal (A fe	se may b	e assess	ed if sample	s are ret	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	1 month)
Non-Hazard Hammable Skin Intent Poison B Deliverable Requested: I, II, IV, Other (specify)	5		Radiological		Specia	Return To Client I Instructions/QC	ons/QC	Special Instructions/QC Requirements	Disposinents:	Disposal By Lab		Archive For	Months
Empty Kit Relinquished by:		Date:		r	Time.				Ĺ	Method of Shipment FES	ent Til	E NTH Y	16-46-3156
Relinquished by: ,	11/8	2) (2)	45	Company HBWS	Rec	Received by	A	10	2 ETTING	PTZ O	Date/Time, OS/OS/	2023 10	COMPany CO ESTAP
Relinquished by	Date/Time:		Co	Company	Rec	Received by				Date	Date/Time		ŭ
	Date/Time:		S	Company	Rec	Received by:				Date	Date/Time:		Company
Custody Seals Intact: Custody Seal No A Yes A No					ů	ler Temper	ature(s) of	Cooler Temperatum(s) "C and Other Remarks:	Remarks:	1324	5:13	66-,200-	" CELL-
													Ver. 01/16/2019

Monrovia, CA (Suite 100) 750 Royal Oaks Drive Suite 100 Monrovia, CA 91016 Phone (626) 386-1100		Chain of Custody Record	Record			🔆 eurofins 🕫	Environment Testing America
Client Information	250	Nakanoto	Lab PM: Arada, Rachelle	Ü	Carrier Tracking No(s)	GOC No: 380-27941-2757.2	
Client Contact Dr. Ron Fenstermacher	Phane: 808-748-5840		E-Mail: Rachelle Arada@et.euronisus.com		State of Origin:	Page Page 2 of 2	
Company: City & County of Honolulu		PWSID:		Analysis Requested	sted	# qof	
Address- 630 South Beretania Street, Chemistry Lab	Due Date Requested:						S: M - Hexane
City Honolulu	TAT Requested (days):						None AsNaO2
State, Zip: H1, 98843	Compliance Project: A No		(EAL)	(EAL)		D - Nitric Acid	Na2S04S Na2S03
091 (tel)	PO #: C20525101 exp 05312023		7F) \$UC				H2SO4 TSP Dodecahydrate
	WO*		Vo) Tysis L Tysis L	Purges		1 - Ice J - Di Water	U - Acetone V - MCAA W - pH 4-5
Project Name: RED-HILL/HBWS sites Event Desc [.] RUSH Weekly Red Hill	Project# 38001111		Diese) s#9		K - EDTA L - EDA	Y - Trizma Z - other (specify)
Site	-#MOSS		259 - 1 2108 - 1 2168 - 1	- 6015 - 537.		Other:	
Sample Identification	Sample Date Time	Sample (w-water Type s-solid, o-wateroll, G-comp, o-wateroll, G-comp, o-wateroll, grant party of the party of	Energii dieli Marian mone CARTINO BUS CARTINO BUS CAR	PASTNOOBUS		Special Infrarritions Notes	rtione Mote.
	X	Preservation Code:	XX R R R	§ ≻			totions/hote.
MOANALUA WELLS		Water					
AIEA GULCH WELLS PUMP2	8/2/2023 1160	Gr Water		333		62504	52/4/23
AIEA WELLS PUMPS 1&2 (260)	8/2/2013 (130	Water		333		7 C	
HALAWA WELLS UNITS 1&2	COO! 5202/2/8	(S) Water		33		Ponel	
FB MOANALUA WELLS		Water					
FB AIEA GULCH WELLS-PUMP2	812/2128	Water		+	净		
FB AIEA WELLS PUMPS 1&2 (260)	8/2/2013	Water			62/4/8		
FB HALAWA WELLS UNITS 1&2	5/2/7023	Water					
Possible Hazard Identification		Dadiological	Sample Disposal ()	A fee may be assu	ples are re	ained longer than 1 mo	nth)
1	CINCONII.	adidiogical	Special Instructions/QC Requirements:	QC Requirements:	Disposal by Lab	Archive For	Months
Empty Kit Relinquished by:	Date:		Time:		Method of Shipment: FED	EX 7724 7646	37156
Relinquished by The The Manual Relinquished by	Date/Time 8 (2/2027)	1245 Company HBWS	Received by:	GREITMER	Ostertime: OS/OS/	2013 10 00 0	Company
Relinquished by:	Date/Time:	Сотралу	Received by:		Date/Time	3 8	Company
			Cooler Temperature	Coolar Temperatura(s) *C and Other Remarks:	1		1000
Δ Yes Δ No					752H 15.1	-02'=49°	Charles Valo

Login Sample Receipt Checklist

Client: City & County of Honolulu Job Number: 380-57979-2

Login Number: 57979 List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Elyas, Matthew

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	

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