

Environment Testing America

ANALYTICAL REPORT

Eurofins Eaton Monrovia 750 Royal Oaks Drive Suite 100 Monrovia, CA 91016

Tel: (626)386-1100

Laboratory Job ID: 380-22067-1 Client Project/Site: RED-HILL

For:

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

Attn: Mr. Erwin Kawata

Hogerteen I Hobb

Authorized for release by:

10/26/2022 3:39:27 PM

Kathleen Robb, Client Program Manager

(949)261-1022

Kathleen.Robb@et.eurofinsus.com

Designee for

Rachelle Arada, Manager of Project Management

(626)386-1106

Rachelle.Arada@et.eurofinsus.com

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Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Laboratory Job ID: 380-22067-1

- 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)

Kathleen Robb

Client Program Manager 10/26/2022 3:39:27 PM

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Definitions/Glossary

Client: City & County of Honolulu Job ID: 380-22067-1

Project/Site: RED-HILL

Qualifiers

Subcontract

Qualifier Description

U 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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Eaton Monrovia

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Case Narrative

Client: City & County of Honolulu

Job ID: 380-22067-1 Project/Site: RED-HILL

Job ID: 380-22067-1

Laboratory: Eurofins Eaton Monrovia

Narrative

Job Narrative 380-22067-1

Comments

No additional comments.

Receipt

The samples were received on 9/27/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3° C and 2.8° C.

Subcontract non-Sister

See attached subcontract report.

Subcontract Work

Method 8015 Ethanol: This method was subcontracted to EMAX Laboratories Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: City & County of Honolulu Job ID: 380-22067-1

Project/Site: RED-HILL

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

Lab Sample ID: 380-22067-1

No Detections.

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Client Sample Results

Client: City & County of Honolulu Job ID: 380-22067-1

Project/Site: RED-HILL

Client Sample ID: AIEA GULCH WELLS PUMP 2 Lab Sample ID: 380-22067-1

(331-202-TP072)

Date Collected: 09/26/22 10:55 Matrix: Drinking Water

Date Received: 09/27/22 10:00

Method: 8015 Ethanol - 9	SW846 8015B Gasoline Range (Organics		
Analyta	Decult Qualifier	DI.	MDI IInit	

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 ETHANOL
 ND
 U
 2000
 ug/L
 09/30/22 12:40
 1

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QC Sample Results

Client: City & County of Honolulu Job ID: 380-22067-1

Project/Site: RED-HILL

Matrix: WATER

Method: 8015 Ethanol - SW846 8015B Gasoline Range Organics

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 22MEI004W

Lab Sample ID: 22MEI004WB

MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac D **Prepared** ETHANOL 09/30/22 11:57 ND U 2000 ug/L

Lab Sample ID: 22MEI004WL **Client Sample ID: Lab Control Sample Matrix: WATER** Prep Type: Total/NA

Analysis Batch: 22MEI004W

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits **ETHANOL** 10000 10500 60 - 130 ug/L 105

Lab Sample ID: 221334-01M **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: WATER

Analysis Batch: 22MEI004W

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec **ETHANOL** ND 10000 10500 60 - 130 ug/L

Lab Sample ID: 221334-01S

Matrix: WATER

Analysis Batch: 22MEI004W

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit ETHANOL ND 10000 9650 ug/L 97 60 - 130

QC Association Summary

Job ID: 380-22067-1

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

Subcontract

Analysis Batch: 22MEI004W

Lab Sample ID 380-22067-1	Client Sample ID AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Prep Type Total/NA	Matrix Drinking Water	Method 8015 Ethanol	Prep Batch
22MEI004WB	Method Blank	Total/NA	WATER	8015 Ethanol	
22MEI004WL	Lab Control Sample	Total/NA	WATER	8015 Ethanol	
22I334-01M	Matrix Spike	Total/NA	WATER	8015 Ethanol	
22I334-01S	Matrix Spike Duplicate	Total/NA	WATER	8015 Ethanol	

Lab Chronicle

Client: City & County of Honolulu Job ID: 380-22067-1

Project/Site: RED-HILL

Client Sample ID: AIEA GULCH WELLS PUMP 2

(331-202-TP072)

Date Collected: 09/26/22 10:55 Matrix: Drinking Water

Date Received: 09/27/22 10:00

l		Batch	Batch		Dilution	Batch			Prepared
	Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
	Total/NA	Analysis	8015 Ethanol		1	22MEI004W	ASitu		09/30/22 12:40

Laboratory References:

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

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Lab Sample ID: 380-22067-1

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Method Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

Method
8015BMethod Description
SW846 8015B Gasoline Range OrganicsProtocol
SW846Laboratory
SW846

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 380-22067-1

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Sample Summary

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

Job ID: 380-22067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-22067-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	09/26/22 10:55	09/27/22 10:00



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

Date: 10-17-2022 EMAX Batch No.: 22I334

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 380-22067

Enclosed is the Laboratory report for samples received on 09/28/22. The data reported relate only to samples listed below :

Sample ID	Control # Col Date	Matrix	Analysis
380-22067-1	1334-01 09/26/22	WATER	ETHANOL
380-22067-1MS	1334-01M 09/26/22	WATER	ETHANOL
380-22067-1MSD	1334-01s 09/26/22	WATER	ETHANOL

The results are summarized on the following pages.

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

Sincerely yours,

Caspar J. Pang Laboratory Director

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

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

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

REPORT ID: 221334

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Chain of Custody Record

eurofins .

Environment Testing

Monrovia, CA 91016 Phone: 626-386-1100					2272	L334			24160175] 5/20:
Client Information (Sub Contract Lab)	Sampler:		Lab PM: Arada,	Lab PM: Arada, Rachelle	!	Carrier Tracking No(s):	ing No(s):	380-22397.1		L 0/2(
	Phone:		E-Mail: Rache		eurofinsus.com	State of Origin: Hawaii	ja;	Page: Page 1 of 1		1
Company: EMAX Laboratories Inc				Accreditations Required (Se State - Hawaii	iired (See note):			Job #: 380-22067-1		<u> </u>
Address: 3051 Fujita Street, ,	Due Date Requested: 10/11/2022		:		Analysis	Requested		Preservation Codes:	M - Hexane	
City: Torrance	TAT Requested (days):	:						B - NaOH C - Zn Acetate	N - None O - AsNaO2 P - Na2O4S	
State, Ztp: CA, 90505								E - NaHSO4	Q - Na2SO3 R - Na2S2O3	
Phone:	PO #:			6)				G - Amchlor H - Ascorbic Acid		
Email:	WO#:			Ho)				250000000000000000000000000000000000000	V - Acetone V - MCAA W - pH 4-5	
Project Name: RED-HILL	Project #: 38001111			(2.40)				L-EDA	Y - Trizma Z - other (specify)	
Site: Honolulu BWS Sites	SSOW#:			មាន				Other:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Type Sample (C=comp, Time G=grab)	Wewater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Reddenfarei Perfermi (15) SUB (8015 Ethi				Total Number Special	Special Instructions/Note:	
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-22067-1)	9/26/22 H	10:55 Hawaiian	Water	×				See Attached Instructions	nstructions	of 3
										ge 14
									- Company of the Comp	Pa
										<u>L</u>
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Eaton Analytical, LLC.	tical, LLC places the ov s/matrix being analyzed tions are current to date	rnership of method, an , the samples must be , return the signed Ch	alyte & accreditatio shipped back to the ain of Custody attes	n compliance upon Eurofins Eaton Ar ting to said complic	out subcontract labora nalytical, LLC laborator ance to Eurofins Eato	atories. This sample y or other instruction in Analytical, LLC.	shipment is forwarde s will be provided. A	ed under chain-of-custor ony changes to accredita	dy. If the laboratory does not ation status should be brough	
Possible Hazard Identification Unconfirmed				Sample Disposal (A fee ient	/ be assessed if sam Disposal By Lab	'samples ar e re	may be assessed if samples ar e retained longer than 1 month) Disposal By Lab Archive For Mont	nn 1 month) Months	<u> </u>
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	e Rank: 2		Special Inst	Special Instructions/QC Requirements	irements:				<u>L</u>
Empty Kit Relinquished by:	D.	Date:		Time:	/	Metho	Method of Shipment:			<u>L</u>
Relinquished by M. M. M. M. Sec. A.	22-824-Ja	1000	Company	Received by:	ox.			8-22 12-	Company	<u></u>
	Date/Time: 9_28_22	2 15.20	1	Received by:	38		Date/Time:	2 1520	Company Company	
	Date/Time:		Company	Received by:	oy: (ther Demarks (1)	Date/Ilme:		Company	
REPORTMD: 221334				1.1				Pa	Page 2 of 14	
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LAGORATORIES, INC.

REFE	RENCE: EI	MAX-SM)2 Rev.	12
SAMPL	E RECE	IPT FO	ORM	1

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□ Fedex □ UPS □ GSO	Others Anga FuSt			Recipient JHOWIN ZG1	mora
☐ EMAX Courier ☐ Client Deli	very			Date 9/18/17	Time 15 CO
COC INSPECTION					
Client Name	Client PM/FC	☐ Sampler Name	Sampling Date/Time	☐ Sample ID	Matrix
Address	Tel # / Fax #	Courier Signature	Analysis Required	☐ Preservative (if any)	D'TAT
Safety Issues (if any)	☐ High concentrations expec	/	☐ Rad screening required	,	7
Note:	Li Trigii concentrations expec	cted	□ rad sort commig requires		
11000.			· · · · · · · · · · · · · · · · · · ·	·	
PACKAGING INSPECTION					3
Container	Z Cooler	□ Box	□ Other		-
Condition	Custody Seal	☐ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	□ Popcorn	☐ Sufficient	
Temperatures		□ Cooler 2°C	□ Cooler 3°C	Cooler 4°C	☐ Cooler 5°C
(Cool, ≤6 °C but not frozen)		□ Cooler 7°C	□ Cooler 8°C	Cooler 9°C	☐ Cooler 10°C
Thermometer:	A - S/N	B-S/N 110760237	C - S/N	(D) S/N 210760272	
Comments: Temperature is ou	t of range. PM was informed	IMMEDIATELY.			
Note:					
DISCREPANCIES					
LabSampleID	LabSampleContainerID	Code ClientSample La	abel ID / Information	Corrective	Action
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			- c 9/1/1/1		
☐ pH holding time requiremen	t for water samples is 15 mir	L as Water samples for nH analy	vsis are received beyond 15	minutes from sampling time	12 9/19/21
		is. Water samples for pri analy	ysis are received beyond 15 i	minutes from sampling time.	1, 1, 1,
NOTES/OBSERVATIONS	:				<u> </u>
SAMPLE MATRIX IS DRINKING	GWATER? □ YES □ NO		, At W. Li		
LEGEND:				☐ Continue to next pa	ge.
Code Description-Sample Man	agement	Code Description-Sample Man	agement	Code Description-Sample Man	agement
D1 Analysis is not indicated in		D13 Out of Holding Time	• ,	R1 Proceed as indicated in 🗆 CC	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	first
D5 Container -[improper] [leal	king] [broken]	D17 Preservation mismatch CO	C 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		D19 Insufficient Sample		R7 Filter and preserved as necess	ary
D8 Sample listed in COC is no		D20 No filtration info for dissol	lved analysis	•	
D9 Sample received is not liste		D21 No sample for moisture deter			
D10 No initial/date on correction		D22			
D11 Container count mismatch		D23		R11	
D12 Container size mismatch C	/ [^] \	D24	/)	R12	
REVIEWS:	THOMIN /	Charles	// / -		A A
Sample Labeling		sri	F Chula	PM	1 - MD
	e 912812 9/18/2	2 Dat	e 5/28/22	Date	e 112112
REPORT ID: 22133	1 1000	`		Po	ge 3 of 14
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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.
*	*	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.

REPORT ID: 221334

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-22067

METHOD SW8015C ALCOHOLS BY GC

SDG#: 221334

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-22067

SDG : 22I334

> METHOD SW8015C ALCOHOLS BY GC

One(1) water sample was received on 09/28/22 to be analyzed for Alcohols by GC in accordance with Method SW8015C 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. MEI004WB - 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. MEI004WL/MEI004WC 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. Ethanol was within MS QC limits in I334-01M/I334-01S. Refer to Matrix QC summary form for details.

Sample Analysis

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

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Project	: 380-22067								ווארו מווע	
			11 11 11 11 11 11 11 11 11 11 11 11 11	;; 11 11 11 11 11 11	771 111 111 111 111 111 111 111 111 111					
					. MA	WATER				
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibratio	n Prep.	
Sample 1D		Sample ID		Moist		DateTime	Data FN	Data FN Batch	Batch	Notes
		- 1	1 1 1		;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1	1 1 1 1 1	
MRI K1W		ME1004WB	-	¥	09/30/2211:57	NA	T130005A	T130003A	ME I 004W	Method Blank
I redu		MF1004WL	_	Ä	09/30/2212:11	NA	T130006A	T130003A	MEI 004W	Lab Control Sample (LCS)
F C2		ME1004WC	•	NA A	09/30/2212:25	NA	T130007A	T130003A	ME1004W	LCS Duplicate
380-22067-		1334-01	-	Ν	09/30/2212:40	NA	T130008A	T130003A	MEI004W	Field Sample
380-22067-1MS	1MS	1334-01M	-	Ν	09/30/2213:11	NA	T130009A	T130003A	MEI004W	Matrix Spike Sample (MS)
380-22067-1MSD	-1MSD	1334-018	•	NA A	09/30/2213:26	ΝA	TI30010A	T130003A	MEI 004W	MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

REPORT ID: 221334

SAMPLE RESULTS

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METHOD SW8015C ALCOHOLS BY GC

Date Collected: 09/26/22 Client : EUROFINS EATON ANALYTICAL Project : 380-22067 Batch No. : 221334 Date Received: 09/28/22

Date Extracted: NA Sample ID: 380-22067-1 Date Analyzed: 09/30/22 12:40

Dilution Factor: 1 Lab Samp ID: 1334-01 Matrix : WATER % Moisture : NA Lab File ID: TI30008A Ext Btch ID: MEI004W Instrument ID : GCT050 Calib. Ref.: TI30003A

	RESULTS	RL	MDL
PARAMETERS	(ug/L)	(ug/L)	(ug/L)
ETHANOL	ND	2000	500

RL: Reporting Limit

QC SUMMARIES

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Client : EUROFINS EATON ANALYTICAL
Project : 380-22067
Batch No. : 221334 Date Collected: NA Date Received: NA Date Extracted: NA Date Analyzed: 09/30/22 11:57 Sample ID: MBLK1W Lab Samp ID: MEI004WB Dilution Factor: 1 Matrix : WATER % Moisture : NA Lab File ID: TI30005A Ext Btch ID: MEI004W Instrument ID : GCT050 Calib. Ref.: TI30003A _______ RESULTS (ug/L) (ug/L) **PARAMETERS** (ug/L) -------ETHANOL ND 2000

: Reporting Limit

CLIENT:

EUROFINS EATON ANALYTICAL

PROJECT:

380-22067

BATCH NO.:

221334

METHOD:

METHOD SW8015C

MATRIX: DILUTION FACTOR: 1

DATE EXTRACTED:

DATE ANALYZED:

PREP. BATCH:

WATER

SAMPLE ID: MBLK1W LAB SAMP ID: MEI004WB

LAB FILE ID: T130005A

T130006A NA

T130007A

NA

NA 09/30/2211:57 09/30/2212:11 09/30/2212:25 MEI004W

MEI004W

MEI004WL

MEI004W

MEI004WC

DATE RECEIVED:

% MOISTURE:

DATE COLLECTED:

NA

CALIB. REF:

T130003A T130003A T130003A

ACCESSION:

PARAMETER	(ug/L)	(ug/L)	(ug/L)	% REC	(ug/L)	(ug/L)	% REC	(%)	(%)	(%)
Ethanol	ND	10000	10500	105	10000	11200	112	6	60-130	30

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT:

EUROFINS EATON ANALYTICAL

PROJECT:

380-22067

BATCH NO.:

221334

METHOD:

METHOD SW8015C

MATRIX: DILUTION FACTOR: 1

WATER

I334-01M

% MOISTURE:

NA

SAMPLE ID: LAB SAMP ID:

380-22067-1

1334-01s TI30010A

LAB FILE ID: DATE EXTRACTED:

PREP. BATCH:

NA DATE ANALYZED:

T130009A NA

NA

09/30/2212:40 ME I 004W T130003A

1334-01

TI30008A

09/30/2213:11 MEI004W T130003A

09/30/2213:26 MEI004W T130003A

DATE COLLECTED: 09/26/22 DATE RECEIVED:

09/28/22

CALIB. REF: ACCESSION:

PARAMETER Ethanol

SPIKE AMT SMPL RSLT (ug/L) (ug/L) ND

MS RSLT (ug/L) 10000 10500

% REC 105

MS

(ug/L) 10000

SPIKE AMT

(ug/L) 9650

MSD RSLT

% REC 97

MSD

(%)

RPD

(%) 60-130

(%)

QC LIMIT MAX RPD

Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100 Monrovia. CA 91016

Chain of Custody Record

💸 eurofins

Environment Testing America

Phone: 626-386-1100 Carrier Tracking No(s): BAILEY 380-15918-4215.1 **Client Information** Arada, Rachelle State of Origin: Page: Client Contact: Phone: .808-748-S840 Rachelle.Arada@et.eurofinsus.com Page 1 of 1 Dr. Ron Fenstemacher Job#: Company: **Analysis Requested** City & County of Honolulu Due Date Requested: Preservation Codes: 630 South Beretania Street Chemistry Lab M - Hexane N - None TAT Requested (days): City: B - NaOH O - AsNaO2 Honolulu C - Zn Acetate P - Na2O4S D - Nitric Acid State, Zip: Q - Na2SO3 E - NaHSO4 Compliance Project: A Yes A No HI. 96843 R - Na2S2O3 F - MeOH PO #: S - H2SO4 Phone: G - Amchlor T - TSP Dodecahydrate C20525101 exp 05312023 808-748-5091(Tel) H - Ascorbic Acid U - Acetone I - Ice WO #: V - MCAA 380-22067 COC J - DI Water RFENSTEMACHER@hbws.org W - pH 4-5 SUBCONTRACT - 8015 Ethanol containers K - EDTA Y - Trizma Project Name: Project #: L - EDA Z - other (specify) RED-HILL 38001111 Other: SSOW#: Hawaii Total Number of Matrix Sample (W=water, Type S=solid, (C=comp, Sample Sample Date Time G=grab) BT=Tissue, A=Air) Special Instructions/Note: Sample Identification Preservation Code: R Water MOANALUA WELLS (331-223-TP202) Water HALAWA SHAFT VIEW POOL (331-241-TP401) Water AIEA GULCH WELLS PUMP 2 (331-202-TP072) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Disposal By Lab Return To Client Archive For Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Months Special Instructions/QC Requirements: Deliverable Requested: I, II, III, IV, Other (specify) Method of Shipment: Empty Kit Relinquished by: Date: Time: Received by: Date/Time: Company 26/26/2022 1000 PEH Date/Time: Relinquished by: Company Received by: Company Date/Time: Relinquished by: Date/Time: Company Received by: Company Cooler Temperature(s) °C and Other Remarks: Custody Seals Intact: Custody Seal No.: Δ Yes Δ No

Ver: 06/08/2021

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Bottle Order Information

Bottle Order:

RED-HILL - Resample Ortly 8015 Ethanol

Bottle Order #:

4215

Request From Client: 9/21/2022 Date Order Posted:

9/21/2022 5:15:22PM Ready To Process

Order Status: Prepared By:

Michelle Do

Deliver By Date:

9/23/2022 11:59:00PM

Lab Project Number: 38001111

PWSID:

HI00000331-202-TP072, HI00000331-223-TP202, HI00001

Order Completion Information

Creator:

Michelle Do

Filled by: Sent Date:

Sent Via:

27.5		
Tra	cking	#.

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot#
1	3	9	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	SUBCONTRACT - 8015 Ethanol	Water	Normal		
2	3	6	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	SUBCONTRACT - 8015 Ethanol	Water	Normal		

Total Bottle Summary			
Bottle Type Description	- i -	Preservative	Bottle Count
Voa Vial 40ml Amber - Sodium thiosulfate		Sodium Thiosulfate	15
		Total Bottles:	15

Notes to Field Staff:

Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative

Comment

Sodium Thiosulfate

CAUTION! CONTAINS 10% SODIUM THIOSULFATE. Harmful if inhaled. Use adequate ventilation. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with wa

Company	Date	Time	Received By	Company	Seal#: Seal#: Seal#:
Company	Date	Time	Received By	Company	Seal#: Seal#:

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Page 28 of 33

ORIGIN ID:HIKA (808) 748-5840 BWS CHEMLAB HONOLULU BOARD OF WATER SUPPLY 630 S. BERETANIA ST. CHEMICAL LABORATORY HONOLULU, HI 96843 UNITED STATES US

SHIP DATE: 26SEP22 ACTWGT: 58.00 LB CAD: 100205419/INET4530

BILL RECIPIENT

M. VASQUEZ EUROFINS EATON ANALYTICAL, INC 750 ROYAL OAKS DR MONROVIA CA 91016 (626) 386-1178 REF SUITE 100

581 J1/EC8C/FE2D

2 of 2 Mstr# 7700 4032 0179

TUE - 27 SEP 10:30A PRIORITY OVERNIGHT

0201

91016 CA-US BUR

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

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Service Guide apply, many payers and properties of the particles of the package, local factories for the payers of the package, local factories, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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Compilance Acceptance Criteria:				•	
1) Chemistry: >0, ≤6°C, not frozen	(NELAP) (If received after 24 hrs of sam	ple collection)			
2) Microbiology, Distribution: < 10	°C, not frozen (can be ≥10°C if received	on ice the same day as sample o	collection, within 8 hou	ra)	
3) Microbiology, Surface Water: <	10°C (If received after 2 hours of sample	collaction)			4.
If out of temperature range for both Chemistry and Microbio symples and imperature dose not confirm, than measure it temperature dose not confirm that measure it is to be a second to be	agy	'C) (Finsi ='O) 2 = (Observation=	'C) (Corr.Fastor*0) (F	inai =	
dangents	3 = (Observation= 'C) (Corr.Fector	(c) (Final = (c) 4 = (Observation=	'C) (Cort.Factor'O) (I	final = (a) '	
4 Dioxin (1813 or 2,3,7,8 TCDD): m	ust be between 0-4 °C, not frozen (If rec	elved after 24 hrs of sample colle	ction)		
	Lot Number:pH	and the second second second second		Resulte	1:
	Sansafe, Lot No.: Exp!ratio				
Headspace.	mplas with Headspace:	Samples with Headspace (
Headspace D Exampli from headspace concerns; Mel Bamp D Bollie None/<8 >8mm Test	Documentation (use additional VOC an hods 515.4, HAA(8251,852), 806, 8PME, @CH, 832 Samp ID Bollis # None/<8 >8mm Tast	d Radon Internal COFC for add LGMS, 558, 538, Anatoxin, LGMS method Samp ID Bollis # Nons/<8 >5mm mm	using 40 ml vials, interna	Honal elients: Bollis # Nons/<8 >	6mm Test
Note Sample IDs which have dissimilar hea	dapace (i.e. potential sampling errors):_				
BIGNATURE	. PRINT NAME	ODMPANYTTLE	DATE	TIME	
REDEIVED BYN COLLET	Mark Urcutia	Eurofins Ealon Analylical	9/27/22	060	
#IGNATURE .	PRINT HAME	COMPANY/TITLE	DATE	TIME	
SAMPLES CHECKED AGAINST GOO BY: .		Euroline Ealon Analytical	i		
· ·				• • •	

CONDITION OF ICE: Frozen

UPS / DHL / Area Fast / Top Line / Other:

(Corr.Factor 0.1

INTERNAL CHAIN OF CUSTODY RECORD

SAMPLES REC'D DAY OF COLLECTION? Yes / No

SAMPLE TEMP RECEIVED:
Note: Il samples are out of temperature range, let the ASMs know. ASMs will determine whather to proceed with analyzis or not.

_ Partially Frozen

speurofins

TYPE OF ICE: Real_

QA FO-FRM5504 (9.28.21) Ver 9

EEA Folder Number:

Enton Analytical

(Observation= 1-4

ORIGIN ID:HIKA (808) 748-5840 BWS CHEMLAB HONOLULU BOARD OF WATER SUPPLY 630 S. BERETANIA ST. CHEMICAL LABORATORY HONOLULU, HI 96843 UNITED STATES US

SHIP DATE: 26SEP22 ACTWGT: 58.00 LB CAD: 100205419/INET4530

BILL RECIPIENT

M. VASQUEZ EUROFINS EATON ANALYTICAL, INC 750 ROYAL OAKS DR MONROVIA CA 91016
(626) 386-1178
INV:
PO:



1 of 2 7700 4032 0179 ## MASTER ##

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> 91016 CA-US BUR



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Note Sample IDs which have dissimilar	headspace (i.e. potential sampling errors):			. *
BIJUTAKDIB	, . FRINT NAME	OOMPANYITILE	DATE	TIME
VEDELAED BAI	Mad urutia	Eurofina Ealon Analytical	9/27/2	600]
RIGNATURE	PRINT HAME-	COMPANY/TITLE	DATE	TIME
samples checked against doo sy: .	•	Eurolina Ealon Analylical		

Test

OA FO-FRMSSO1 (9.28.21) Ver 9

de eurofins

EEA Folder Number:

Enton Analytical

TYPE OF ICE: Real ____ Synthetic ____ No ice

Compliance Acceptance Criteria:

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

5) pH Check, Manufacturer:

7) VOA and Radon Headspace:

Bamp ID Boltla # None/<8 >8mm

METHOD OF SHIPMENT: Pick-Up / Walk-In / Fadex

6) Chlorine check, Manufacturer; Sansafe, Lot No.:

Page ___ of ___

INTERNAL CHAIN OF CUSTODY RECORD

SAMPLES REC'D DAY OF COLLECTION? YES / No

CONDITION OF ICE: Frozen Partially Frozen

pH strip type: 0 - 14

Expiration Date:

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exemplifrom headspace concerns: Methods 815.4, HAA(8251,552), 508, 6PME, @OH, 532LOMS, 558, 538, Anatoxin, LCMS methods using 40 mi viale, international olienter

_ °C) (Final = 1.6 °C)

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whather to proceed with analysis or not.

Samples with Headspace (see below)!

Samp ID Bollis # Nons/<8 >8mm

*0) (Final =

*01

Bamp ID Bollie # None/<8 >8mm

SAMPLE TEMP RECEIVED:

/ UPS / DHL / Area Fast / Top Line / Other:

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

(Observation= 2.9 'C) (Corr.Factor 0.1

3 = (Observation=

4 Dioxin (1813 or 2,3,7,8 TCDD): must be between 0-4 *O, not frozen (if received after 24 hrs of sample collection)

Lot Number:

1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

No Samples with Headspace:

Samp ID Boills # Nons/<5 >6mm

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

Login Sample Receipt Checklist

Client: City & County of Honolulu Job Number: 380-22067-1

Login Number: 22067 List Source: Eurofins Eaton Monrovia

List Number: 1

Creator: Segura, Ryan

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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