

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata City & County of Honolulu 630 South Beretania Street Public Service Bldg. Room 310 Honolulu, Hawaii 96843 Generated 12/12/2023 3:27:34 PM

JOB DESCRIPTION

HRS-340E - RED-HILL - INTERA

JOB NUMBER

380-67915-1

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





Eurofins Eaton Analytical Pomona

Job Notes

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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.

Companies

- 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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Client: City & County of Honolulu Project/Site: HRS-340E - RED-HILL - INTERA

Qualifiers		3
Subcontract		
Qualifier	Qualifier Description	4
U	This analyte was not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	7
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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	10
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	11
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	13
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)	
TNITO	The Numerous To Count	

TNTC Too Numerous To Count

Job ID: 380-67915-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-67915-1

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 10/19/2023 9:45 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 1.2°C

Subcontract Work

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

Detection Summary	
Client: City & County of Honolulu Project/Site: HRS-340E - RED-HILL - INTERA	Job ID: 380-67915-1
Client Sample ID: BWS2253-J1-AQ	Lab Sample ID: 380-67915-1
No Detections.	
Client Sample ID: BWS2253-J1-TB	Lab Sample ID: 380-67915-2
No Detections.	

lient Sample ID: BWS2 ate Collected: 10/18/23 11:						La	ab Sampl	e ID: 380-67 Matrix:	
ate Received: 10/19/23 09:4									
Method: 8015 Diesel LL (E/ Analyte		Oil - 8015 Qualifier	- TPH DRO/O RL	RO MDL	Unit	D	Prepared	Analyzed	Dil Fa
DIESEL			0.03		mg/L	_ <u>-</u> -	Tropurcu	10/23/23 18:47	
MOTOR OIL	ND		0.059		mg/L			10/23/23 18:47	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
BROMOBENZENE	93		60 - 130			-		10/23/23 18:47	
HEXACOSANE	94		60 - 130					10/23/23 18:47	
GASOLINE	ND	-	0.02		mg/L			10/19/23 21:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
BROMOFLUOROBENZENE	88		60 - 140			-		10/19/23 21:06	
lient Sample ID: BWS	2253-J1-TB					La	ab Sampl	e ID: 380-67	′915·
ate Collected: 10/18/23 11:								Matrix	Wate
ate Received: 10/19/23 09:4	45								
Method: 8015 Gas (Purgea					_	-			
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil F
GASOLINE	ND	U	0.02		mg/L			10/19/23 21:45	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F

Client Sample Results

Client: City & County of Honolulu Project/Site: HRS-340E - RED-HILL - INTERA Job ID: 380-67915-1

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Project/Site: HRS-340E - RED-HILL - INTERA Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO Matrix: Water Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) XACOSA BB Lab Sample ID **Client Sample ID** (60-130) (60-130) 380-67915-1 BWS2253-J1-AQ 93 94 Surrogate Legend **BB = BROMOBENZENE** HEXACOSANE = HEXACOSANE Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO Matrix: WATER Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) ΒВ XACOSA **Client Sample ID** Lab Sample ID 23DSJ024WB Method Blank Surrogate Legend **BB = BROMOBENZENE** HEXACOSANE = HEXACOSANE Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO **Matrix: WATER** Prep Type: Total/NA

	Percent Surrogate Recovery (Acceptance Limits)					
		BB	XACOSA			
Lab Sample ID	Client Sample ID	(60-130)	(60-130)			
23DSJ024WL	Lab Control Sample	70	89			
	•					

Surrogate Legend

BB = BROMOBENZENE HEXACOSANE = HEXACOSANE

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(60-140)	
380-67915-1	BWS2253-J1-AQ	88	
380-67915-2	BWS2253-J1-TB	91	

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics Matrix: WATER Prep Type: Total/NA

		Percent Surrogate Re	ecovery (Acceptance Limits)	
	BFB			
Client Sample ID				
Method Blank				
			_	
		Client Sample ID	BFB Client Sample ID	Client Sample ID

BFB = BROMOFLUOROBENZENE

Surrogate Summary

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range	Organics	
Matrix: WATER	Prep Type: Total/NA	
Percent Surrogate Recovery (Accepta	nce Limits)	

Surrogate Summary					
Client: City & Coun			Job ID: 380-67915-1		
	340E - RED-HILL - INTERA				
	Gas (Purgeable) LL (EP	L) - EMAX - SW846 8015E	3 Gasoline Range Organics		
Matrix: WATER			Prep Type: Total/NA		
			ogate Recovery (Acceptance Limits)		
l sh Osmala ID	Olicat Comula ID	BFB (70-130)			
Lab Sample ID 23VGH7J05C	Client Sample ID	(70-130) 106	·	5	
23VGH7J05L	Lab Control Sample	101			
Surrogate Legend	d			0	
BFB = BROMOFLU				7	
-					
				8	
				9	
				13	

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QC Sample Results

Job ID: 380-67915-1

5-1 2 3 ank /NA 4 5 <u>Fac</u> 1 1

Lab Sample ID: 23DSJ024WB Matrix: WATER Analysis Batch: 23DSJ024W							CI	ient Sam	ple ID: Method Prep Type: T	
····· , ··· ···	МВ	МВ								
Analyte	Result	Qualifier	RL	MD	L Unit	ſ)	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.025		mg/L			-	10/23/23 13:28	1
MOTOR OIL	ND	U	0.05		mg/L				10/23/23 13:28	
	MB	МВ								
Surragata	мы Recovery%		Limits					Branarad	Analyzed	
Surrogate BROMOBENZENE	%Recovery	Quaimer						Prepared	$-\frac{A11a1y2e0}{10/23/23 13:28}$	Dil Fa
HEXACOSANE									10/23/23 13:28	
NEXACOSANE									10/23/23 13.20	
Lab Sample ID: 23DSJ024WL						Clie	nt Sa	ample ID	: Lab Control	Sample
Matrix: WATER									Prep Type: T	
Analysis Batch: 23DSJ024W										
			Spike	LCS L	cs				%Rec	
Analyte			Added	Result Q	ualifier	Unit	D) %Rec	Limits	
DIESEL			2.5	2.1		mg/L		84	50 - 130	
	LCS LC	e								
Surrogate %F	Recovery Qu		Limits							
KRUM()KENZENE	70		60 - 130							
HEXACOSANE	70 89 able) LL (EAL) - E	60 - 130 60 - 130 EMAX - SV	V846 80	15B (Gasolir	e R	ange O	organics	
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER	89	EAL) - E	60 - 130	V846 80	15B (Sasolin			Prganics ple ID: Method Prep Type: T	
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER	⁸⁹ able) LL (60 - 130	V846 80	15B (Gasolin			ple ID: Method	
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05	⁸⁹ able) LL (МВ	60 - 130 EMAX - SV				CI	ient Sam	ple ID: Method Prep Type: T	otal/N/
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte	89 able) LL (MB Result	MB Qualifier	60 - 130		L Unit		CI		ple ID: Method Prep Type: To Analyzed	otal/N/
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte	⁸⁹ able) LL (MB Qualifier	60 - 130 EMAX - SV				CI	ient Sam	ple ID: Method Prep Type: T	otal/N/
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130		L Unit		CI	ient Sam	ple ID: Method Prep Type: To Analyzed	otal/N/
HEXACOSANE lethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate	89 able) LL (MB <u>Result</u> ND	MB Qualifier U	60 - 130		L Unit		CI	ient Sam	Ple ID: Method Prep Type: To Analyzed 10/19/23 15:46 Analyzed	Dil Fa
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130 EMAX - SV 		L Unit		CI	ient Sam Prepared	Prep Type: To Analyzed 10/19/23 15:46	Dil Fa
HEXACOSANE lethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate BROMOFLUOROBENZENE	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130 EMAX - SV 		L Unit	[CI	ient Sam Prepared Prepared	Analyzed 10/19/23 15:46 Analyzed 10/19/23	Dil Fa
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate BROMOFLUOROBENZENE Lab Sample ID: 23VGH7J05L	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130 EMAX - SV 		L Unit	[CI	ient Sam Prepared Prepared	Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Lab Control \$	Dil Fa Dil Fa Dil Fa
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate BROMOFLUOROBENZENE Lab Sample ID: 23VGH7J05L Matrix: WATER	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130 EMAX - SV 		L Unit	[CI	ient Sam Prepared Prepared	Analyzed 10/19/23 15:46 Analyzed 10/19/23	Dil Fa Dil Fa Dil Fa
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate BROMOFLUOROBENZENE Lab Sample ID: 23VGH7J05L Matrix: WATER	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130 EMAX - SV 		<mark>L Unit</mark> mg/L	[CI	ient Sam Prepared Prepared	Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Lab Control \$	Dil Fa Dil Fa Dil Fa
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate BROMOFLUOROBENZENE Lab Sample ID: 23VGH7J05L Matrix: WATER Analysis Batch: 23VGH7J05	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130 EMAX - SV 	MD	L Unit mg/L	[CI	ient Sam Prepared Prepared	Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Example Control S Prep Type: To	Dil Fa Dil Fa Dil Fa
HEXACOSANE Iethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate BROMOFLUOROBENZENE Lab Sample ID: 23VGH7J05L Matrix: WATER Analysis Batch: 23VGH7J05 Analyte	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U	60 - 130 EMAX - SV 	MD	L Unit mg/L	Clie	CI	ient Sam Prepared Prepared	Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Lab Control S Prep Type: To %Rec	Dil Fa Dil Fa Dil Fa
HEXACOSANE Aethod: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Surrogate BROMOFLUOROBENZENE Lab Sample ID: 23VGH7J05L Matrix: WATER Analysis Batch: 23VGH7J05 Analyte	89 Able) LL (MB Result ND %Recovery	MB Qualifier U MB Qualifier	60 - 130 MAX - SV 	LCS LC Result Q	L Unit mg/L	Cliet	CI	ient Sam Prepared Prepared ample ID	Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Lab Control S Prep Type: To %Rec Limits	Dil Fa Dil Fa Dil Fa
BROMOBENZENE HEXACOSANE Method: 8015 Gas (Purgea Lab Sample ID: 23VGH7J05B Matrix: WATER Analysis Batch: 23VGH7J05 Analyte GASOLINE Lab Sample ID: 23VGH7J05L Matrix: WATER Analysis Batch: 23VGH7J055 Analyte GASOLINE	89 able) LL (MB Result ND <i>MB</i>	MB Qualifier U MB Qualifier	60 - 130 MAX - SV 	LCS LC Result Q	L Unit mg/L	Cliet	CI	ient Sam Prepared Prepared ample ID	Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Analyzed 10/19/23 15:46 Lab Control S Prep Type: To %Rec Limits	Dil Fac

QC Association Summary

Client: City & County of Honolulu Project/Site: HRS-340E - RED-HILL - INTERA

Subcontract

Analysis	Batch:	23DSJ024W

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-67915-1	BWS2253-J1-AQ	Total/NA	Water	8015 Diesel LL (EAL) and Motor	
				Oil	
23DSJ024WB	Method Blank	Total/NA	WATER	8015 Diesel LL	
				(EAL) and Motor Oil	
23DSJ024WL	Lab Control Sample	Total/NA	WATER	8015 Diesel LL	
				(EAL) and Motor	
-				Oil	
Analysis Batch: 23	SVGH7J05				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-67915-1	BWS2253-J1-AQ	Total/NA	Water	8015 Gas	
				(Purgeable) LL	
380-67915-2	BWS2253-J1-TB	Total/NA	Water	(EAL) - EMAX 8015 Gas	
		10(0)/10/1	Hator	(Purgeable) LL	
				(EAL) - EMAX	
23VGH7J05B	Method Blank	Total/NA	WATER	8015 Gas	
				(Purgeable) LL (EAL) - EMAX	
23VGH7J05L	Lab Control Sample	Total/NA	WATER	8015 Gas	
				(Purgeable) LL	
				(EAL) - EMAX	

Job ID: 380-67915-1

Matrix: Water

Lab Sample ID: 380-67915-1

Client Sample ID: BWS2253-J1-AQ Date Collected: 10/18/23 11:00 Date Received: 10/19/23 09:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 Diesel LL (EAL) and Motor Oil		1	23DSJ024W	SDees		10/23/23 18:47
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL) - EMAX		1	23VGH7J05	SCerva		10/19/23 21:06
Client Sam	ple ID: BW	S2253-J1-TB					L	ab Sample ID: 380-67915-2
Date Collecte	d: 10/18/23 1	1:00						Matrix: Water
ate Receive	d: 10/19/23 0	9:45						

Prep Type Total/NA	Batch Type Analysis	Batch Method 8015 Gas (Purgeable) LL (EAL)	Run	Dilution Factor	Batch Number 23VGH7J05	Analyst SCerva	Lab	Prepared or Analyzed 10/19/23 21:45
_		(Purgeable) LL (EAL) - EMAX						

Laboratory References:

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

Eurofins Eaton Analytical Pomona

Client: City & County of Honolulu Project/Site: HRS-340E - RED-HILL - INTERA

Method	Method Description	Protocol	Laboratory
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:

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

Sample Summary

Client: City & County of Honolulu Project/Site: HRS-340E - RED-HILL - INTERA Job ID: 380-67915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-67915-1	BWS2253-J1-AQ	Water	10/18/23 11:00	10/19/23 09:45
380-67915-2	BWS2253-J1-TB	Water	10/18/23 11:00	10/19/23 09:45



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

Date: 12-12-2023 EMAX Batch No.: 23J182_R1

Attn: Jackie Contreras

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

Subject: Laboratory Report Project: 380-67915

.....

Enclosed is the Laboratory report for samples received on $10/19/23. \ The data reported relate only to samples listed below :$

Sample ID	Control # Col Date	Matrix	Analysis
380-67915-1	J182-01 10/18/23	WATER	TPH GASOLINE
380-67915-2	J182-02 10/18/23	WATER	TPH DIESEL & MOTOR OIL TPH GASOLINE

Note: Report was revised to correct the project # 380-67748 to 380-67915.

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 CA002912023-25 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing California ELAP Accredited Certificate Number 2672

Date Time:		Relievustned by: Data/Filmo: Company Received by: Data/Filmo:		Reinquianad by, Devoltimer, Devoltimer, Councerny Received by: DataTimer,	Empty Kit Relinquished by: Date: Time: Method of Shipment:	Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rafik: 2 Special Instructions/vk/ veguindmana.		and identification	Note: Strong subpartary accordingtons are adapted to brange, Euroman Analysian Analysian and analysian a substance of a substance upon to a substance and the substance of the s	the second s					BWSZ253-J1-TB (380-57915-2) 10/18/23 11:00 Water X I	8WS2253-J1-AQ (380-67915-1) 10/18/23 11:00 Water X X I I I I I	Preservation Code:		Sample (G=comp.	Sampa BBD (Purge BBD (Purge BBD (io (Ye setie) = EMAL) =	No)		5	TAT Requested (daya):	Address: 3051 Fujita Street, . Analysis Requested	Company: Addressing on nony, EMAX Laboratories Inc	Phone: Rach	Arada, Rachelle	Eurofins Eaton Analytical Pomona Chain of Custody Record
Cooler Temperature(s) ⁹ C and Other Remarks:	Q			8	Mothod of Shi	ÿ	Chiefre Disposal by Lab	I (A fee may be assessed if sam	LLC laboratory or other instructions will be a rofins Eaton Analyticsi, LLC.	contract laboratorias. This sumple shicenets																Analysis Requested	see now.			
	ale/finne:	ato Fima:	n de Crit en or	ole/Time:	protection (A CIBAD A	ples are retained longer than 1	trastangers will be provided. Any changes to accreditation atolus shauld be brought to LC.	t is forwarded under chain-of-custody. If i	, ,	 	· · · · · · · · · · · · · · · · · · ·		2 See Attached Instructions	8 See Attached Instructions		T	iotal Number	ofco	L-EDA	J-DI Water	a,			1011 100	380-67915-1	Page 1 of 1		eurofins
	Company	Company	Completen	Ссятралу			CONTRACTOR	f month) Monthe	ອັນດີແລ ຈຳດາທີ່ຮ້ອຍ ອາດຸມຊູກິນ ເອ	the laboratory does not					nuctions	nuctions		Special instructional mote:			Y - Inzma Z - other (specify)	V - MCAA W - pH 4-5	T + TSP Dodecshydrate	Q - Na2SO3 R - Na2S2O3	P - Na2O4S	M - Hexane	No. and			Environment Testing

about:blank

235/82 (Rooked Coc)

Firefox

REPORT ID:	Custody Seals Intact: ∆ Yes ∆ No	Relinquished by:	Relinquished by:	5	Empty Kit Relinquished by:	Deliverable Requ	Possible Hazard Identification									BW62263_11-FB	D BWS2253-J1-TB	1 BWS2253-J1-AQ		Sample Identification		Site: Site J	Project Name: HRS-340E - RED-HILL - INTERA	Email: ekawata@hbws.org	Phone: 808-748-5066(Tel)	State, Zip: HI, 96843	Honolulu	Address: 630 South Beretania Street	Company: City & County of Honolulu	Client Contact: Mr. Erwin Kawata	Client Information	941 Corporate Center Drive Pornona, CA 91768	Pomona, CA
ID: 23J182	No Custody Seal No.:			a him	uished by:	Deliverable Requested: I, II, III, IV, Other (specify)	l Identification													ation			D-HILL - INTERA	org	(16			ania Street	Honolulu		ation	r68	A 5 6 7
		Date	Date	ÚC			Poison B									-	4/27/23	16/		Sa		SSO	Proje 380	WO	PO # C205	Com	TAT	Due		Phone:	Sampler		8 9 1
		Date/Time:	Date/ Ime:	ic/18/23			Unknown									52181/0	E2 18	118/23	X	Sample Date		SOW#	Project #: 38002227		PO # C20525101 exp 05312023	\$	TAT Requested (days):	Due Date Requested:		ξή.	Т 5	0	
				1330	Date:	4												я 8	X	Sample (C Time G	s				5312023	∆ Yes ∆ No				205-0	Kone	Chain of	1:
		Company	Company				Radiological									G	G N	G N	Preservation Code:	G=grab) BT≖Tis						0			WSID:	02 t (14
		апу	iny	INTERA	Tirne	Sp	S	,								Water .	Water 🔥	Water N	Code: XX	S=solid, 0=wasta/oil, BT=Tissue, A=Air) Field F	iltered	AND DESCRIPTION OF	100000000000	CONTRACTOR NO.	0)					E-Mail: Rachelle_A	Lab PM: Arada, Rachelle	Custody Record	
	Cooler Temperatur	Redeived by:	THE WAR	Received by:		ecial Instruct	Return To Ci	2										4	N N	SUBCO SUBCO	NTRAC	T - TPH	8015 C)lesel a	and Mo	otor Oil	1			E-Mail: Rachelle Arada@et.eurofinsus.	chelle	ord	
) / 1 , (s)a		P			Special Instructions/QC Requirements	al (A fee ma Client										2	4	N A Z	SUBCO SUBCO	NTRAC	T - TPH T - 8016	8015 d Gas						Analysis	ofinsus.com		23	
	Other Remarks:				Me	irements:	y be assessed it sat X Disposal By Lab											3	XXA	PFAS-5	97:1_DV 933_DO	V_PRE(-537.1 IS Std	List	list:				s Requested	State o	Carrier	231182	
	CF=-0,	Date/Time:	10/10/	Dater	ethod of Shipme		The assessed if samples										N			826013 -	(MOD)	Super	olatile	s List					ed	State of Origin:	Carrier Tracking No(s): デビのでメ		
	.2	me:	23	ime:	Poto Stiggen RIS RICH		Archive For	•								N	4	23	×	Total N	umbei	of co	Contraction of the										1. j.
P			945		1 OVENNI		For		Pamorja	Bill and Report to EEA	PFAS 1633 - EEA SAC	PFAS 537.1 & 533 - EEA POM	82608 - EEA POM	8015 Gas - EMAX	BUIS IPH DHM - EMAX			_ Subcontract Motes		x = testing c	Special in	Other:	L-EDA	J - Di Water	G - Amchlor H - Ascorbic Acid	E - NaHSO4 F - MaOH	B - NaOH C - Zn Acetate	Preservation Codes:	Jab #:	Page: Page 1 of 1	COC No:		eurofins
age°3167125		Company	EM/4X	Company	s life		than 1 month) Months			n to EEA -	EEA SAC	& 533 - EEA	POM	MAX	+M - EMIAX			Worker of the second		x = testing comes from another container.	Special Instructions Note:		Y - Trizma Z - other (specify)	V - MCAA W - pH 4-5	S - HZSC4 T - TSP Dodecahydrate U - Acetone	Q - Na2SO3 R - Na2S2O3	N - None O - AsNaO2 P - Na2O4S	M - Hexans				America America	

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

LABORATORIES, INC.

Type of De	livery		Airbill / Track		ECN 23/182 Recipient Nahaben Nacana				
🖸 Fedex 🗆 UPS 🗆 GSO	Others		78524021 507	12		Time 945			
EMAX Courier D Client Deliv	very				Date 10/19/23	Time 940			
COC INSPECTION			,		,	5			
Client Name	Client PM/FC		D-Sampler Name	Sampling Date/Time	2 Sample ID	D Matrix			
☑ Address	D Tel # / Fax #		Courier Signature	D Analysis Required	Preservative (if any)	🖬 TAT			
	High concentrations expension	ooted	From Superfund Site	Rad screening required		6			
Safety Issues (if any)	lates on correction	ac	Li From Supervisio Sile	- tao one on Brodon of					
Note: NO INITIAI/O	arvo genconcont	12.			· · · · · · · · · · · · · · · · · · ·	7			
PACKAGING INSPECTIO	N				· · · ·				
Container	M Cooler		□ Box	Other		•			
	D Custody Seal		Intact	Damaged .					
00100100	El Bubble Pack		□ Styrofoam	Popcom	□ Sufficient	9			
Packaging factor: -0.2	Cooler 1 1.4/1.2 "C		oler 2 °C	□ Cooler 3 °C	Cooler 4 °C	Cooler 5°C			
Temperatures				□ Cooler 8 °C	Cooler 9°C	□ Cooler 10"C 10			
(Cool, ≤6 °C but not frozen)	Cooler 6"C	LI Coo	oler 7°C B - S/N 22/925379	(C) S/N 230044897	D-S/N 210700237				
Thermometer:	A - SIN 221852768			CJ 3/1 7300440-1	D-3/N 210100291				
Comments: 🗆 Temperature is ou	it of range. PM was informe	ed IMM	EDIATELY.						
Note:									
DISCREPANCIES				- hal ID / Information	Corrective	Action			
LabSampleID	LabSampleContainerID	Code	ChentSample	Label ID / Information	0 9	Action 13			
2	9/10	DU		10 - 10000 11 0.0	K.O				
2	9,10	03	1D: TRAVEL BLAN	KS BUS2253 JI AQ	L. V.				
2.	9,10	D14			RY	-			
2	-1710	1				15			
					N 2				
-					1				
				and the second se					
						and the second se			
			-	11					
				- interfector		AD 2 10 10			
				$- \mathcal{L} [\rho] [\gamma] [\alpha$	ř	- 12/2/20123			
□ pH holding time requirement	nt for water samples is 15 n	nins. W	/ater samples for pH and	alysis are received peyond 15	minutes from sampling time.				
NOTES/OBSERVATIONS									
SAMPLE MATRIX IS DRINKING	G WATER? 🗆 YES 🗆 NO				÷				
						-			
x x1 47 x1 x 125					Continue to next p	age.			
LEGEND:		0.1	Dennistan Comple Ma	nonament	Code Description-Sample Mar	-			
Code Description-Sample Mar			Description-Sample Ma	magement	R1 Proceed as indicated in C	-			
D1 Analysis is not indicated in	n		3 Out of Holding Time						
D2 Analysis mismatch COC v	/s label	(1)Bubble is >6mm		R2 Refer to attached instruction				
(D3) Sample ID mismatch COC) vs label		5 No trip blank in cooler	1	R3 Cancel the analysis				
D4 Sample ID is not indicated	1 in	D10	6 Preservation not indicate	ed in	R4 Use vial with smallest bubbl				
D5 Container -{improper} [lea	iking] [broken]	D1	7 Preservation mismatch (COC vs label	R5 Log-in with latest sampling	date and time+1 min			
(D6) Date/Time is not indicated		D1	8 Insufficient chemical pre	eservative	R6 Adjust pH as necessary				
D7 Date/Time mismatch COC		D19	9 Insufficient Sample		R7 Filter and preserved as nege	ssary Coc			
,,			0 No filtration info for dis	solved analysis	RS See Pleirs	sig Coc			
D8 Sample listed in COC is n			1 No sample for moisture de		R9				
D9 Sample received is not list			_		R10				
D10 No initial/date on correcti		D2			DII				
D11 Container count mismatch		D2		<u> </u>		ALLEY TO BE AND THE SECOND SEC			
D12 Container size mismatch (, D2	4			010			
REVIEWS:	Nahaeen //		1 -	no Varial.)	M MS			
Sample Labelin	g NALATION	ife		RF LUNUL	-	M TODAL			
Da	te 10/19/23 10/1	<u>"h</u> x	D	ate 19/03	_ Da	ne coportes			
REPORT ID: 23J	182	r		· /	Do				
ILFUITID. 23J	102	ЕМАХ.	Laboratoric Page 3 18	61/43St., Torrance, CA 905	05 Fd	ge 4 of 25/12/2023			

EMAX Laboratorid Page 318 64 43St., Torrance, CA 90505



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REPORTING CONVENTIONS

DATA QUALIFIERS:

Description	AFCEE Qualifier	Lab Qualifier
Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.	Ŀ	ſ
Indicates presumptive evidence of a compound.		Ν
Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.	8	8
Indicates that the result is above the maximum calibration range or estimated value.	ſ	Э
Out of QC limit.	¥	*

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

SNOITAIVERBEREVIATIONS:

DO	Diluted out
WDF	Method Detection Limit
PQL	Practical Quantitation Limit
שאר	Method Reporting Limit
	Reporting Limit
CRDL	Contract Required Detection Limit

DATES

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-67915

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

SDG#: 23J182

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-67915

SDG : 23J182

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

A total of two(2) water samples were received on 10/19/23 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. VGH7J05B - 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. VGH7J05L/VGH7J05C 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 J167-01M/J167-01S. Refer to Matrix QC summary form for details.

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

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

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client Project	: EUROFINS EATON AN : 380-67915	ANALYTICAL							SDG NO. Instrument	SDG NO. : 23J182 Instrument ID : H7
					WATER	EX				
Client		Laboratory	Dilution	96	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch N	Notes
MBLK1W		VGH7J05B	-1	M	10/19/2315:46	10/19/2315:46	AJ19005A	A119004A	23VGH7J05 N	23VGH7J05 Method Blank
MUSUI		VGH7J05L	1	A	10/19/2316:27	10/19/2316:27	AJ19006A		23VGH7J05 L	_ab Control Sample (LCS)
LCD1W		VGH7J05C	1	Ā	10/19/2317:07	10/19/2317:07	AJ19007A		23VGH7J05 L	-CS Duplicate
380-67915-	1	J182-01	г	A	10/19/2321:06	10/19/2321:06	AJ19013A		23VGH7J05 F	Field Sample
380-67915-2	2	J182-02	7	A	10/19/2321:45	10/19/2321:45	A41001LA	AJ19004A	23VGH7J05 F	Field Sample

FN - Filename % Moist - Percent Moisture

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SAMPLE RESULTS

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

	TON ANALYTICAL			10/18/23 11:00
Project : 380-67915			Received:	
Batch No. : 23J182				10/19/23 21:00
Sample ID : 380-67915-1				10/19/23 21:00
Lab Samp ID: J182-01		Diluti	ion Factor:	
Lab File ID: AJ19013A			Matrix:	
Ext Btch ID: 23VGH7J05			Moisture:	
Calib. Ref.: AJ19004A		Inst	trument ID:	П/
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
		•••••	••••	
GASOLINE	ND	0.020	0.010	
	RESULT	SPK AMT	%RECOVERY	QC LIMIT
SURROGATE PARAMETERS	RESULT			

Notes:

-

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

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

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

Client : EUROFINS EAT		Date	Collected	10/18/23 11:00
	UN ANALTICAL		Received:	
Project : 380-67915 Batch No. : 23J182				10/19/23 21:45
Sample ID : 380-67915-2				10/19/23 21:4
Lab Samp ID: J182-02			on Factor:	
Lab File ID: AJ19014A		DITUCI	Matrix:	
Ext Btch ID: 23VGH7J05		2	Moisture:	NA
Calib. Ref.: AJ19004A		Inst	rument 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	0.0365	0.0400	91	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

QC SUMMARIES

REPORT ID: 23J182

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

Client : EUROFINS EA	TON ANALYTICAL	Date	Collected:	10/19/23	15:46
Project : 380-67915		Date	Received:	10/19/23	
Batch No. : 23J182			Extracted:		
Sample ID : MBLK1W			Analyzed:		15:46
Lab Samp ID: VGH7J05B		Diluti	on Factor:	-	
Lab File ID: AJ19005A			Matrix:		
Ext Btch ID: 23VGH7J05			Moisture:		
Calib. Ref.: AJ19004A		Inst	rument 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 LI	IIT
Bromofluorobenzene	0.0356	0.0400	89	60-14	40

Notes:

Parameter H-C Range

Gasoline C6-C10 Reported ND at RL quantitated per pattern recognition.

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

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT PROJECT BATCH NO. METHOD	: EUROFINS EAT : 380-67915 : 23J182 : 5030B/8015B	ON ANALYTICAL
HETHOD	; 50506/60156	

MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : MBLKIW LAB SAMPLE ID : VGH7J05 LAB FILE ID : AJ19005 DATE PREPARED : 10/19/2 DATE ANALYZED : 10/19/2 PREP BATCH : 23VGH7J CALIBRATION REF: AJ19004 ACCESSION:	A 3 15:46 3 15:46 05		1 LCS1W VGH7J05L AJ19006A 10/19/23 1 10/19/23 1 23VGH7J05 AJ19004A			<pre>% MOISTURE 1 LCD1W VGH7J05C AJ19007A 10/19/23 1 10/19/23 1 23VGH7J05 AJ19004A</pre>	7:07			
PARAMETERS Gasoline	MBResult (mg/L) ND	SpikeAmt (mg/L) 0.500	LCSResult (mg/L) 0.425	LCSRec (%) 85	SpikeAmt (mg/L) 0.500	LCDResult (mg/L) 0.444	LCDRec (%) 89	RPD (%) 4	QCLimit (%) 60-130	MaxRPD (%) 30
SURROGATE PARAMETER Bromofluorobenzene		SpikeAmt (mg/L) 0.0400	LCSResult (mg/L) 0.0403	LCSRec (%) 101	SpikeAmt (mg/L) 0.0400	LCDResult (mg/L) 0.0422	LCDRec (%) 106		QCLimit (%) 70·130	

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

EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

MATRIX	: WATER	
METHOD	: 5030B/8015	ъВ
BATCH NO.	: 23J167	
PROJECT	: 380-67915	
CLIENT	: EUROFINS E	EATON ANALYTICAL

MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : 380-679 LAB SAMPLE ID : J167-03 LAB FILE ID : AJ19008 DATE PREPARED : 10/19/2 DATE ANALYZED : 10/19/2 PREP BATCH : 23VGH7. CALIBRATION REF: AJ19004 ACCESSION:	1 BA 23 17:48 23 17:48 J05		1 380-67917-1 J167-01M AJ19009A 10/19/23 18 10/19/23 18 23VGH7J05 AJ19004A	8:27		<pre>% MOISTURE 1 380-67917- J167-01S AJ19010A 10/19/23 1 10/19/23 1 23VGH7J05 AJ19004A</pre>	1MSD			
PARAMETERS Gasoline	PSResult (mg/L) ND	SpikeAmt (mg/L) 0.500	MSResult (mg/L) 0.431	MSRec (%) 86	SpikeAmt (mg/L) 0.500	MSDResult (mg/L) 0.518	MSDRec (%) 104	RPD (%) 18	QCLimit (%) 50-130	MaxRPD (%) 30
SURROGATE PARAMETER Bromofluorobenzene		SpikeAmt (mg/L) 0.0400	MSResult (mg/L) 0.0429	MSRec (%) 107	SpikeAmt (mg/L) 0.0400	MSDResult (mg/L) 0.0473	(%)		QCLimit (%) 60-140	

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-67915

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 23J182

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-67915

SDG : 23J182

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 10/19/23 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. DSJ024WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for Diesel was within LCS QC limits in DSJ024WL. Refer to LCS summary form for details.

Matrix QC Sample Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 23J167-01M/23J167-01S. Refer to Matrix QC summary form for details.

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

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

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

NS EATON ANALYTICAL : 233182 Instrument ID : D5	WATER	% Analysis Extraction Sample Calibration Prep.	DateTime Data FN	 1 NA 10/23/2313:28 10/19/2315:00 LJ23010A LJ23003A 2	10/19/2315:00 LJ23011A LJ23003A 2	1. NA 1	
: EUROFINS EATON ANALYTIC : 380-67915				DSJ024	DSJ024		
Client Project		Client	Sample ID	MBI K1W	LCS1W	380-67915-1	

FN - Filename % Moist - Percent Moisture

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SAMPLE RESULTS

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EA	TON ANALYTICAL			10/18/23 11:0
Project : 380-67915		Date	Received:	10/19/23
Batch No. : 23J182		Date	Extracted:	10/19/23 15:0
Sample ID : 380-67915-1		Date	Analyzed:	10/23/23 18:4
Lab Samp ID: 23J182-01		Diluti	on Factor:	1
Lab File ID: LJ23026A			Matrix:	WATER
Ext Btch ID: 23DSJ024W		2	Moisture:	NA
Calib. Ref.: LJ23003A		Inst	rument ID:	D5
PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.030	0.015	
Motor Oil	ND	0.059	0.030	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
		0 500		60-130
Bromobenzene	0.552	0.590	93 94	60-130
Hexacosane	0.138	0.148	94	00-130

Notes:

Parameter	H·C	Range
Diesel	C10.	C24

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
 : 850ml

 Prepared by
 : RGalan

 Final Volume : 5ml

 Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

	ATON ANALYTICAL		Collected:		15:00
Project : 380-67915 Batch No. : 23J182			e Received: Extracted:		15.00
Sample ID : MBLK1W			Analyzed:		
Lab Samp ID: DSJ024WB			ion Factor:		20140
Lab File ID: LJ23010A			Matrix:	WATER	
Ext Btch ID: 23DSJ024W			Moisture:		
Calib. Ref.: LJ23003A		Inst	trument ID:	D5	
	RESULTS	RL (mg/l)	MDL (ma/L)		
PARAMETERS	(mg/L)	(mg/L)	(mg/L)		
Diesel	ND	0.025	0.012		
Motor Oil	ND	0.050	0.025		
SURROGATE PARAMETERS	RESULT	SPK_AMT	#RECOVERY	QC LI	١T
Bromobenzene	0.341		+ =	60-1	
Hexacosane	0.108	0.125	86	60-1	50

Notes:

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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 PROJECT BATCH NO. METHOD	:	380-6791	-	LYTICAL			
MATRIX DILUTION FACTO SAMPLE ID LAB SAMPLE ID LAB FILE ID DATE PREPARED DATE ANALYZED PREP BATCH CALIBRATION REI ACCESSION:	R : : : : :	1 MBLK1W DSJ024WB LJ23010A 10/19/23 10/23/23 23DSJ024	15:00 13:28 W	10/23/23	15:00 13:47		
PARAMETERS Diesel			(mg/L)	(mg/L)	LCSResult (mg/L) 2.10	(%)	(%)
SURROGATE PARA	ME	TERS			LCSResult (mg/L)		QCLimit (%)

MB: Method Blank sample LCS: Lab Control Sample

Bromobenzene

Hexacosane

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60-130

60-130

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0.349

0.111

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0.500

0.125

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EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT PROJECT BATCH NO. METHOD	:	EUROFINS EATON ANAL 380-67915 23J167 3520C/8015B	_YTICAL
MATRIX DILUTION FAC		WATER	1

MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : 380-67917-1 LAB SAMPLE ID : 23J167-01 LAB FILE ID : LJ23018A DATE PREPARED : 10/19/23 15:00 DATE ANALYZED : 10/23/23 16:18 PREP BATCH : 23DSJ024W CALIBRATION REF: LJ23003A	23J1 LJ23 10/1 10/2 23D5	67917-1MS 67-01M 0027A 9/23 15:00 3/23 19:06 5J024W 003A			1 380-67 23J167 LJ2302 10/19/	20A 23 15:00 23 16:55 24W			
ACCESSION:									
	t SpikeAmt) (mg/L)	MSResult (mg/L)	MSRec (な)		MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel N	2.55	2.19	86	2.70	2.35	87	7	50-130	30
SURROGATE PARAMETERS Bromobenzene Hexacosane	SpikeAmt (mg/L) 0.510 0.127	MSResult (mg/L) 0.306 0.125	MSRec (%) 60 98		MSDResult (mg/L) 0.430 0.134	(%)		QCLimit (%) 60·130 60·130	

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

Pomona, CA

941 Corporate Center Drive
Pomona, CA 91768

Chain of Custody Record

	Sampler:				PM:							C	Carrie	r Trac	king No	(s):			COC No:			
Client Information	Sampler.	Kone			ada, R	achelle											_	-	Date			
Mr. Erwin Kawata	Phone: (855)	205.	073	O Ra	Aail: achelle	Arada	@et.e	eurofi	nsus.	com			A	AL	All				Page: Page 1 of 1	and a second		
Company: Dity & County of Honolulu			PWSID:		T				An	alys	sis R	Requ	les	ted					Job #:			
^{ddress:} 30 South Beretania Street	Due Date Request	ed:	-			1			Ī	T				T	11	1		Preservation Code				
ity:	TAT Requested (d	ays):			-														A - HCL B - NaOH	M - Hexane N - None		
lonolulu tate, Zip:	STAN	DARD)				-												C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S		
i, 96843	Compliance Proje						or Oil												E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3		
ione:)8-748-5066(Tel)	PO #: C20525101 exp	05312023	1.			5	and Mot					#							F - MaCH S - H2SO4 G - Anchlor T - TSP Dodecahydrat H - Ascorbic Acid U - Acetone J - DI Water V - MCAA J - DI Water W - pH 4-5			
nail: kawata@hbws.org	WO #:				or No	ON THE		Fuel	Free			ST.IFUITLIS	ti	List								
roject Name: IRS-340E - RED-HILL - INTERA	Project #: 38002227			-	e (Yes	AHO!	SUBCONTRACT - TPH 8015 Diesel	16-10	off-de	Gas		11:12	1033-3td Efst	- (MOD) Super Volaties L				ainer	K-EDTA L-EDA	Y - Trizma Z - other (specify)		
te:	SSOW#:					SD Nes	TPH 80	BHH	THE I	3015 G	ytee	RECH	1033	ar vo				cont	Other:			
ite J		1	-	24.44	ad Sampl		CT-1	191	5	CT-1	Ana		8000	Ins.lo			1.00	Total Number of containers				
			Sample Type	Matrix (Wewater,	littere		NTRA	NTRA	MITTER	SUBCONTRACT	8-P	1-1-10	1633-1	IOW)				Numb	Special Ins	structions/Note:		
ample Identification	Sample Date	Sample Time	(C=comp, G=grab)	Sesolid, Oewasta/oii,	biel	Suacc	UBCC	UBGE	UBCC	UBCC	FAB	PASH	FAS	82608				otal		mes from anothe ntainer.		
imple centification	Gample Date			st-Tissue, A=A tion Code:			-	N	N	_	z y	Î	Ĵ	Å		125	241	Ż		ntainer.		
NS2253-J1-AQ	10/18/23	Hoc	G	Water	N	14	4			4	B	в	2	3				23	Cuber about 3	Lakas		
NS2253-J1-TB 7/2	12 0/131 23		G	Water	N	T		1		2	T	Π	1	2				4	- Subcontract N			
W62263-11-FB			G	Water	11	1					11	T		-				2	- 625 PAH - Phy			
				-	T						+	1	+						8015 TPH D+M	A-EMAX		
P.MM-S					Ħ		1				+	1		-†	1				8015 Gas - EN	AX -		
					++		+			-	-	+	-						82608 - EEA POM			
P3%5					Ħ	+	-		-	+	-	+	+	+	-	++	-		PFAS 537.1 &	533 - EEA		
380-67915 COC				-	++	+	1		-	-+	+	+	+	+	-	+	-	-	POM			
								+	-	-	+	+	+	-	-	+	-					
					++	-			-	-	-	-	+	-	-	++	-		Bill and Report	to EEA -		
					++	-	-		-	-	-	+	+	+	-	++	-		South the second second	er in sone i di sored		
needbla Hazard Identification									Sample Dispage / A fea much a second if													
Sible Hazard Identification	Poison B Unkno		diological		Sample Disposal (A fee may be as											les are i						
aliverable Requested: I, II, III, IV, Other (specify)		ton B Unknown Radiological							Return To Client X Dis Special Instructions/QC Requirements								740		ive For Months			
npty Kit Relinquished by:		Date:			Tim	B:							1	Vetho	19 Shi	ment Q	38	15	+ OVEANIL	ür		
	Date/Time:	133	0	Company INTE	24		eived b	y:							Da	te/Time:				Company		
	Date/Time:	193		Company	KA	Rec	H	11	>	_	_				Da		-	-	alla	Company		
linguished by:	Date/Time:			Company		Red	eived b	W.					_			19/19/	23		945	EMAX Company		
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REFERENCE: EMAX-SM02 Rev. 12 SAMPLE RECEIPT FORM 1

12/12/2023

Type of Delivery	Delivery	Airbill / Tracking Number	ng Number	ECN 23/182	
Fedex D UPS D GSO D Others	D Others	78524021 5072	2	een .	Nacana
C EMAX Courier C Client Delivery	elivery			Date 10/19/23	Time 945
COC INSPECTION					
Client Name	D Client PM/FC	Sampler Name	Sampling Date/Time	D Preservative (if any)	D/Mallix
Safety Issues (if any) Note: No initial	rany) D High concentrations expected	-	Rad screening required		
PACKAGING INSPECTION	ION				
Container .	Conler	D Box	D Other		
Condition Correction	Custody Seal	Intact	D Damaged		-
Packaging factor : -0.	factor : -0.2 th Bubble Pack,	C Styrofoam	Popcoin	C Sufficient	

					D14	9,10		2
			D3 ID: TRAVEL BLANKS BUE2253 JI AQ	10: TRAVEL BLAN	60	9,10		2
					DIO	9/10		2
	clive Action	. Correctiv	ClientSample Label ID / Information	ClientSample	Code	LabSampleContainerIU Code	LabSampleID	_
							DISCREPANCIES	DISCR
								Note:
				EDIATELY.	ed IMMI	Comments: D Temperature is out of range. PM was informed IMMEDIATELY.	Temperature is out	Comments:
		D-SIN 2107100237	(C) SAN 230044897	B-S/N 12 925379		4-SIN 221852768	Thermometer:	The
	Cooler 10 "C	Cooler 9 "C	Cooler 8 °C	Cooler 7"C	Cool	Cooler 6 "C	t not frozen)	(Cool, ≤6 "C but not frozen)
D.	Cooler 5	Cooler 4 °C	Cooler 3°C	ler 2"C	Cooler 2	Cooler 11.4/1.2 "C	C.	Temperatures
	-		in a property	LI SIVIOIDAIN		CI DUDIE LACK	FACTOR : -0.4 C public rack	Sugaroa

Page 41 of 43

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

NOTES/OBSERVATIONS:

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Date	D ale	Date 10/14/23 10/19
PM	SRF	Sample Labeling NaCaria ULA
RIZ	024	ner size mismatch Ct
RIJ	D23	D11 Container count mismatch COC vs received
R10	D22	D10 No initial/date on corrections in COC/label
R9	D21 No sample for moisture determination	D9 Sample received is not listed in COC
R8	D20 No filtration info for dissolved analysis	D8 Sample listed in COC is not received
R7 Filter and preserved as necessary	D19 Insufficient Sample	D7 Date/Time mismatch COC vs label
R6 Adjust pH as necessary	D18 Insufficient chemical preservative	(D6) Date/Time is not indicated in UU 100-1
R5 Log-in with latest sampling date and time+ 1 min	D17 Preservation mismatch COC vs label	D5 Container - [improper] [leaking] [broken]
R4 Use vial with smallest bubble first	D16 Preservation not indicated in	D4 Sample ID is not indicated in
R3 Cancel the analysis	'915 No trip blank in cooler	(D3) Sample ID mismatch COC vs label
R2 Refer to attacked instruction	(D14)Bubble is >6mm	D2 Analysis mismatch COC vs label
R1 Proceed as indicated in COC C Label	D13 Out of Holding Time	D1 Analysis is not indicated in
Code Description-Sample Management	Code Description-Sample Management	Code Description-Sample Management
Continue to next page.		LEGEND:

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REFERENCE: EMAX-SM02 Rev. 12 SAMPLE RECEIPT FORM 2

SAMPLES RECEIVED FOR ECN: 23182

																					2								-	(3) C	LAB SAMPLE
	* 9	*	* 7	* 6	s *	* 4	* 3	* 2	* 1	* 0	ę *	8	* 7	* 6	* 5	* 4	* 3	* 2	* 1	* 10	* 9	* 8	* 7	* 6	* S	* 4	*	* 2	* 1	CONTAINER ID	LAB
			/																	-	4		-		-			-	1	cool	
				1																										Jar	
					V																	1	1	1	1					Amber	
	_																													HDPE	CONTAINER TYPE
	_			•		1						-																		Encore	AIN
	_						N		-											1	1					>	1	1	1	Vial	ERT
	-				_	-										_							_							Tube	VPE
						-	-		-									-												Bag	
			_		-	-		-	1		_									-									_	Other	
	_		-		-			-		X				_							-	>	1	1	1				_	NONE	
$\left \right $		-			-		-		-						_					1		-		_		1	1	1	1	(pH<2) HNO3	
	_				-	-	-			-	1			-	-	_				·		-								(pH<2) H ₂ SO4	EOF
+	-	-			-	-	-	-	-		Z				-	-				-			_		_					(pH<2) ZnAc+NaOH	HEM
+		-				-		-	-	10	Nahldee					-	_	-		-			_	-		-	-			(pH>9) ZnAc +NaOH	er Lo ICAI
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+			_	-	-	-	-		-	9/23	Nau			Y	-		-								_	_				(pH>10) NaOH	pH paper Loi #: N/A CHEMICAL PRESERVAT
	-			-		-	-		-	S	Nacana		-								-		-			_	-			(pH≥12) Na ₂ S ₂ O ₃	VATI
	-			-	-	-			-	-	2	-	-				_			-			-		-	-				Methanol	IVE
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EMAX Laboratories, Inc. 3051 Fujita St., Torrance CA 90505

12/12/2023

Login Sample Receipt Checklist

Client: City & County of Honolulu

Login Number: 67915 List Number: 1 Creator: Sanchez, Joseph G

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	

Job Number: 380-67915-1

List Source: Eurofins Eaton Analytical Pomona