

ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)

## **Laboratory Report**

for

Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843 Attention: Erwin Kawata

Fax: 808-550-5018



Report: 989412 Project: RED-HILL

Group: Red-Hill Expanded List (Albuquerque+)

DEB: Debbie L Frank

Project Manager

\* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

- \* Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.
- \* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
- \* Test results relate only to the sample(s) tested.
- \* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
- \* This report shall not be reproduced except in full, without the written approval of the laboratory.
- \* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.





## STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number		
Alabama	41060	Montana	Cert 0035		
Arizona	AZ0778	Nebraska	NE-OS-21-13		
Arkansas	CA00006	Nevada	CA00006		
California	2813	New Hampshire *	2959		
Colorado	CA00006	New Jersey *	CA 008		
Connecticut	PH-0107	New Mexico	CA00006		
Delaware	CA 006	New York *	11320		
Florida *	E871024	North Carolina	06701		
Georgia	947	North Dakota	R-009 87786		
Guam	21-008R	Ohio - 537.1			
Hawaii	CA00006	Oregon *	4034		
ldaho	CA00006	Pennsylvania *	68-00565 CA00006 LAO00326 87016 CA11320 TN02839		
Illinois	200033	Puerto Rico			
Indiana	C-CA-01	Rhode Island			
Iowa – Asbestos	413	South Carolina			
Kansas *	E-10268	South Dakota			
Kentucky	90107	Tennessee			
Louisiana *	LA008	Texas *	T104704230-20-18		
Maine	CA00006	Utah (Primary AB) *	CA00006		
Maryland	224	Vermont	VT0114		
Marianas Islands	MP0004	Virginia *	460260		
Massachusetts	M-CA006	Washington	C838		
Michigan	9906	EPA Region 5	CA00006		
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264		

<sup>\*</sup> NELAP/TNI Recognized Accreditation Bodies

## ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA. Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at: <a href="https://www.eurofinsus.com/Eaton">https://www.eurofinsus.com/Eaton</a>

		nttps://	<u>www.eur</u>
Test(s)	Method(s)	Potable	Waste
		Water *	Water
Enterococci	Enterolert	X	Х
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and	SM 9221 C		
Enumeration)	(MTF/EC), SM 9221 E (MTF/EC)	X	х
Fecal Streptococci and			
Enterococci	SM 9230 B	Х	Х
Heterotrophic Bacteria	SM 9215 B	Х	
Legionella	Legiolert®	Х	
Pseudomonas aeruginosa	ldexx Pseudalert	x	
Total Coliform (P/A and	SM 9221A, SM		
Enumeration)	9221B, SM 9221 C	X	х
Total Coliform, Total			
Coliform with Chlorine	SM 9221 B	X	х
Present	OM SZET D		
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert,	SM 9223	x	
Idexx Colilert 18, Colisure)	5111 5225		
Total Microcystins and	EPA 546	X	
Nodularins Yeast and Mold	SM 9610	Х	
Teast and Word		^	
1,2,3-Trichloropropane	CA SRL 524M-	Х	
(TCP) at 5 PPT	TCP		
1,4-Dioxane	EPA 522	Х	
2,3,7,8-TCDD	Modified EPA 1613 B	X	
Acrylamide	+LCMS 2440)	Х	
Algal Toxins/Microcys in	+ LCMS 3570	X	
Alkalinity	SM 2320B	X	х
	EPA 350.1,		
Ammonia	SM 4500-NH3		х
Antonio	H		
Asbestos Bicarbonate Alkalinity as	EPA 100.2 SM 2330 B	Х	Х
HCO3	SIVI 2330 B	x	x
BOD/CBOD	SM 5210 B		Х
Bromate	+LCMS- 2447	Х	
Carbonate as CO3	SM 2330 B	Х	Х
Carbonyls	EPA 556	Х	Х
Chemical Oxygen Demand	EPA 410.4,		x
	SM 5220D		
Chlorinated Acids	EPA 515.4 Palin Test	Х	
Obligation Districts	Chlordio X Plus,		
Chlorine Dioxide	SM 4500-CLO2	X	
	D		
Chlorine, Free, Combined,	SM 4500-CI G		
Total Residual, Chloramines		Х	
Color	SM2120B	X	
	EPA 120.1,		
Conductivity	SM 2510B	Х	Х
Corrosivity (Langelier			
Index), Carbonate as CO3,	SM 2330 B	Х	
Hydroxide as OH Calculated		_	
	SM 4500-CN		
Cyanide (Amenable)	G G	Х	Х
Cyanide (Free)	SM 4500CN F	Х	Х
Cyanide (Total)	EPA 335.4	Х	Х
Cyanogen Chloride	+335 Mod	х	
(Screen)	(WC-24467)		
Diquat and Paraquat  DBP and HAA	EPA 549.2	X	
DISSOLVED ORGANIC CARDON	SM 6251 B SM 5310 C	X X	
Dissolved Organic Carbon  Dissolved Oxygen	SM 4500-O G	Α	х
EDB/DCBP/TCP	EPA 504.1	Х	^
EDB/DBCP and			
Disinfection Byproducts	EPA 551.1	Х	
EDTA and NTA	+ WC-2454	Х	
Endothall	EPA 548.1,	Х	
Fluoride	*(LCMS-2445) SM 4500F C		v
Glyphosate	EPA 547	X X	Х
Glyphosate and AMPA	+LCMS-3618	X	
Gross Alpha and Gross Beta	EPA 900.0	X	Х

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	х	x
Hardness	SM 2340 B	х	Х
Hexavalent Chromium	EPA 218.6,	Х	Х
Hexavalent Chromium	EPA 218.7,	Х	
Hexavalent Chromium	SM 3500-Cr B		Х
Inorganic Anions and DBPs	EPA 300.0	Х	Х
Norganic Anions and DBPs	EPA 300.1	Х	
Kjeldahl Nitrogen	EPA 351.2		Х
Metals	EPA 200.7, EPA200.8	х	х
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	х	
Nitrate/Nitrite Nitrogen	EPA 353.2	Х	Х
Odor	SM2150B	Х	
Organohalide Pesticides and PCB	EPA 505	х	
Ortho Phosphate	SM 4500P E	X	
Oxyhalides Disinfec ion Byproducts	EPA 317.0	х	
Perchlorate	EPA 331.0	х	
Perchlorate (Low and High			
Levels)	EPA 314.0 EPA 533. EPA	Х	
Perfluorinated Alkyl Acids	537, EPA 537.1	X	
PPCP and EDC	+LCMS-2443	х	
	EPA 150.1		
pН	SM 4500-H+ B	Х	Х
Phenolics – Low Level	*WC 2493 (EPA 420.2 and EPA 420.4 MOD)	х	х
Phenylurea Pesticides/Herbicides	+LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad- 2374)	х	
Radon-222	SM 7500RN	Х	
Residue (Filterable)	SM 2540C	Х	Х
Residue (Non-Filterable)	SM 2540D		Х
Residue (Total)	SM 2540B		Х
Residue (Volatile)	EPA 160.4		Х
Semi-Volatile Compounds	EPA 525.2	Х	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		Х
Sulfite	SM 4500-SO3 B	Х	Х
Surfactants	SM 5540C	Х	Х
Taste and Odor	SM 6040 E	Х	
Total Organic Carbon	SM 5310 C	Х	Х
Total Phenols	EPA 420.1		Х
Total Phenols	EPA 420.4	Х	Х
Triazine Pesticides and their Degradates	+LCMS-3617	х	
Turbidity	EPA 180.1	Х	Х
Uranium by ICP/MS	EPA 200.8	Х	
UV 254 Organic Constituents	SM 5910B	х	
VOCs	EPA 524.2	Х	
VOCs	+ (GCMS 2412) by EPA 524.2	X	
	modified		

<sup>(\*)</sup> includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

<sup>(+)</sup> In-House Method



## **Acknowledgement of Samples Received**

Addr: Honolulu Board of Water Supply

630 South Beretania Street Public Service Bldg." Room 308

Honolulu, HI 96843

Attn: Erwin Kawata Phone: 808-748-5091 Client ID: HONOLULU Folder #: 989412 Project: RED-HILL

Sample Group: Red-Hill Expanded List

(Albuquerque+)

Project Manager: Debbie L Frank Phone: (626) 386-1149

PO #: C20525101 exp 05312023

The following samples were received from you on **February 24**, **2022** at **1208**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID		Sample Date
202202240770	MOANALUA WELLS (331-223-TP2	202)	02/22/2022 0930
	@625BN_Physis	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil
	TPH 8015 Jet Fuel 5	TPH 8015 Jef Fuel 8	
202202240774	TRAVEL BLANK		02/22/2022 0930
	(SUB)Gas Fraction Hydrocarbons		

## **Test Description**

@625BN\_Physis -- 625 Base Neutral Extractable in ug/L

Reported: 04/21/2022

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## CHAIN OF CUSTODY RECORD

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ω 📗	Eaton Analytical	EUROFINS EATON ANALYTICAL USE ONLY:
00	0 Royal Oaks Drive, Suite 100 onrovia, CA 91016-3629	LOGIN COMMENTS:
	one: 626 386 1100 x: 626 386 1101	SAMPLE TEMP RECEIVED AT: Colton / No. California / Arizona

SAMPLES CHECKED AGAINST COC BY:	SAMPLES LOGGED IN BY:	SAMPLES REC'D DAY OF COLLECTION? [ (check for yes)		ool oN			cr for yes)	ms REGIL ATION INVOLVED:	NE SPECIAL	RDER FOR ANALYSES X (check for yes). OR	list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)		SAMPLER							BW = Bottled Water SO = Soil O = Other - Please Identify SW = Storm Water SL = Sludge
		-	C (Compliance: 4 ± 2 °C)	Dartially Frozon	S / DHL			COMPLIANCE SAMPLES	Type of samples (circle one): R	SEE ATTACHED BOTTLE ORDER FOR ANALYSES	list ANALYSES REQUIRED (e		ІІ!Н Р	Re	X					SEAW = Sea Water  WW = Waste Water  SW:
		AT:	2.8	F. Frozen	IT: Pick-Up / Wa				eekly	6		/ 1 day	ATAG G	HIEL	3					nished Water
ii		EIVED A	ornia / Ar	RITE	HIPMEN				RED HILL-Weekly	250	1Q2022	, 2 day	* XIRT,	AM	S CFW					inated Fii
LOGIN COMMENTS:		SAMPLE TEMP RECEIVED	Colton / No. California / Arizona Monrovia	CONDITION OF BLITE ICE: Frozen	METHOD OF S		TOO TOTI OUG	PROJECT CODE:	RED	SAMPLE GROUP:		1 wk 3 day.	CLIENT LAB ID		HI0000331-223					CFW = Chlor(am)inated Finished Water FW = Other Finished Water
		SA		_					SUPPLY			STD	2.5							Water Water
	UITE 100			5227)		ŕ			HONOLULU BOARD OF WATER SUPPLY	COC ID:		_	SAMPLEID		sils					MATRIX TYPES: RSW = Raw Surface Water RGW = Raw Ground Water
	Monrovia, CA 91016-3629	Phone: 626 386 1100	3 1101	800 566 LABS (800 566 5227)		and the same of th	CV NAME.	COMPANT/AGENCY NAME:	BOARD 0	DE:		RUSH	SAI		380Moanalua Wells					PES: RSW = RGW =
	royal C	ne: 626	Fax: 626 386 1101	566 LAB		177	MINIACEN	N 1/AGE	OLULU	EEA CLIENT CODE:		AT requested:	INE	A2 T	2000					RIX TY
760	Mon	Phor	Fax	800		0 20 07	A DWO	A LINE	HON	EEA CL		AT req	BTA(		122122					MAT

RELINGUISHED BY:
RECEIVED BY:
RELINGUISHED BY:
RECEIVED BY:
RECEIVED BY:

OF 1

PAGE 1

**BWS HONOLULU BWS HONOLULU** COMPANY/TITLE

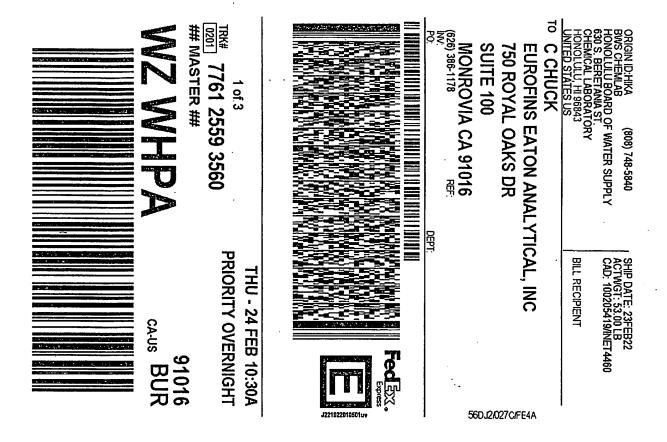
PRINT NAME

SIGNATURE

SAMPLED BY:

REITHER E Juagdan E Juagdan

RECORD  The whather to proceed with analysis or not.  No	n Thawed N/A	ection, within B hours)	(C) (Carr.Faelor (C) (Finel (C)	Expiration Date Results:  ee be(ow)! lonal bottles) Test Samp ID Boillo # Mone/c6 >8mm Te	02.24.26522 12:08 DATE TIME
INTERNAL CHAIN OF CUST( SAMPLE TEMP RECEIVED: SAMPLES REC'D DAY OF COLLECTION SAMPLES REC'D DAY OF COLLECTION 2 8	(Observation= 5.) °C) (Corr.Factor 0.5 °C) (Final = condition of ICE; Frozen / walk-in / Fedex) UPS / DHL / Area Fast / Top Line /	Compilance Acceptance Criteria:  1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)  2) Microbiology, Distribution: <10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	(c) 4 «(Observation»	4 Dioxin (1613 or 2,3,7,8 TCDD); must be between 0-4 °C, not frozen (if received after 24 hrs of sample content);  5) pH Check. Manufacturer: Sansafe. Lot No.:  6) Chlorine check. Manufacturer: Sansafe. Lot No.:  7) VOA and Radon  No Samples with Headspace (see below);  8 Expiration Date:  9 Date	Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):  RECEIVED BY:  SAMPLES CHECKED AGAINST COO BY:  Euroline Eaton Analytical  Euroline Eaton Analytical



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, 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.



## After printing this label:

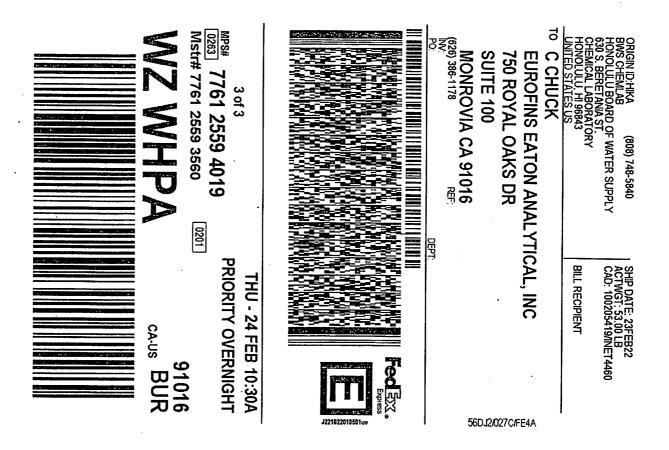
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Created Date & Time: 12/27/2021 12:07:03AM

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

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

**Eaton Analytical** 

es eurofins

Monrovia, California 91016-3629 (626) 386-1100 FAX (866) 988-3757

750 Royal Oaks Drive, Suite 100

Note: Sampler Please return this paper with your samples

Client ID: HONOLULU

Project Code:

Created By: - [AutoGenerated] Kit #: 308898 |||||||||||

Deliver By: 01/26/2022

STG: Bottle Orders

Ice Type: G Pre Registered

MOANALUA WELLS - ended 0127 C20525101 exp 05312023 Description: PO#/JOB#:

Red-Hill Expanded List (Albuquerque+) RED-HILL Bottle Orders Group Name:

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

Fax: 808-550-5018 Honolulu Board of Water Supply Public Service Bldg." Room 308 530 South Beretania Street Attn: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018 Honolulu, HI 96843

Honolulu Board of Water Supply Public Service Bldg." Room 308 530 South Beretania Street Attn: Erwin Kawata Phone: 808-748-5091 Honolulu, HI 96843 Billing Address

<b>*</b>				
Samp	Sample Tests	Bottle Qty - Type [ preservative information]	Total	UN DOT #
-	TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 8015 Jet Fuel 8_C	9 - 1L amber glass [ 1 ml Thio 8% ]	6	
-	8015 Gas_C	3 - 40ml amber glass vial [ 1 drop Thio (8%) ]	3	
-	@504MOD TB C, 8015 Gas_C TB	2 - 40ml amber glass vial [ 1 drop Thio (8%) + H20 ]	2	
-	@VOASDWA C plus plus TICs TBC	3 - 40ml amber glass vial [ 25mg AA+ H20+10 drop 1:1 HCL ]	3	UN1789
Sun	Sum Tests: 4	Sum Bottles: 17	IS: 17	

## Comments

3rd MS/MSD

SITE ID:

SAMPLER

MOANALUA WELLS (331-223 -TP202)

fravel Blanks - TBAMTBE, VOASDWA - Prepare TBs in the VOA LAB. -abel Cooler on TOP and right below both Handles with Site description of contents ( use extra Contaienr Labels) SHIPPING:

Eight 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND Nine 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES. THIS IS A MS/MSD SITE for 600 and 8000 series testing

ASM: Be sure to coordinate Follow-up as needed for any new detections in Field samples. Acetone - follow-ups need to use EPA 624

# of Coolers

Prepared By LKT

Tracking # 549140350081

Via FEDEX

Date Shipped 01/25/2022

Sode

Status



Tel: (626) 386-1100 Fax: (866) 988-3757

1 800 566 LABS (1 800 566 5227)

## **Laboratory Comments**

Report: 989412 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

Honolulu Board of Water Supply Erwin Kawata 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843

## **Folder Comments**

Results for 625 BNA are submitted by Physis Environmental in Anaheim CA

Add 625BN for BCEE February monitoring start, per Erwin Kawata.



Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) **Laboratory Hits** 

Report: 989412 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

Samples Received on: 02/24/2022 1208

Honolulu Board of Water Supply Erwin Kawata 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843

Analyzed Analyte Sample ID	Result	HI Limit	Units	MRL	
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Tel: (626) 386-1100 Fax: (866) 988-3757

1 800 566 LABS (1 800 566 5227)

Report: 989412 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

## **Honolulu Board of Water Supply**

Erwin Kawata 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843 Samples Received on: 02/24/2022 1208

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
MOANAL	LUA WELLS	(331-223-T	P202) (20220224	<u>10770)</u>		Sam	pled on 02/22	/2022 093	0
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	arbons				
02/25/22	02/25/22 20:20		` '	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
02/28/22	03/01/22 18:56			(SW 8015B)	TPH Diesel	ND	mg/L	0.028	1
02/28/22	03/01/22 18:56			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.056	1
		EPA 8015 -	Jet Fuel 5 C8-C	:18					
02/28/22	03/01/22 18:56			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.056	1
		EPA 8015 -	Jet Fuel 8 C8-C	:18					
(	03/01/22 18:56			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.056	1
		EPA 625 -	625 Base Neutra	I Extractable	in ug/L				
(	03/24/22 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	Disalicylidenepropanediamine	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
(	03/24/22 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1
TRAVEL	BLANK (20	2202240774	<u>1)</u>			Sam	pled on 02/22	/2022 093	0
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	ırbons				
02/25/22	02/25/22 22:09		-	(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1



April 13, 2022

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

Project Name: Folder # 989412 Job # 1000014

Physis Project ID: 1407003-224

Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 2/28/2022. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

## **Organics**

Base/Neutral Extractable Compounds by EPA 625.1

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

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

Regards,

Misty Mercier 714 602-5320 Extension 202

mistymercier@physislabs.com



## **PROJECT SAMPLE LIST**

Eurofins Eaton Analytical Folder # 989412 Job # 1000014 PHYSIS Project ID: 1407003-224 Total Samples: 1

PH	YSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
9	5480	202202240770	MOANALUA WELLS (331-223-TP202)	2/22/2022	9:30	Samplewater	Not Specified



## **ABBREVIATIONS and ACRONYMS**

Quality Manual
Quality Assurance
Quality Control
method detection limit
reporting limit
project sample
project sample replicate
matrix spike
matrix spike replicate
procedural blank
procedural blank replicate
blank spike
blank spike replicate
laboratory control spike
laboratory control spike replicate
laboratory control material
laboratory control material replicate
certified reference material
certified reference material replicate
relative percent difference
low molecular weight
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



Innovative Solutions for Nature

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
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples



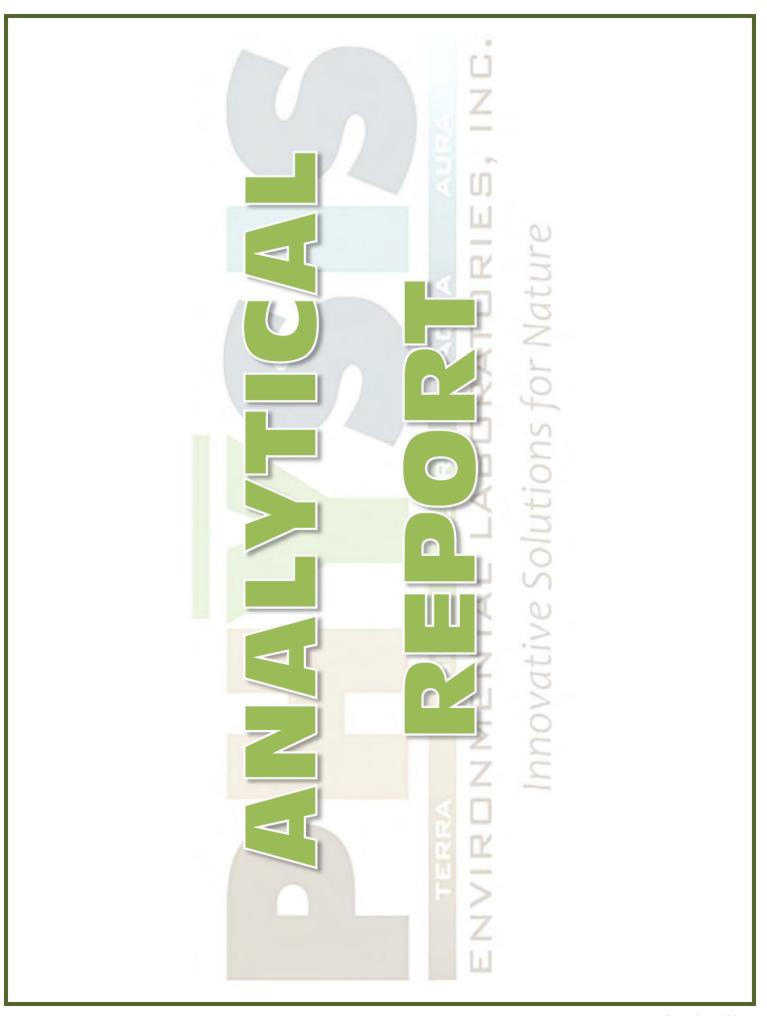
## **CASE NARRATIVE**

## **QUALIFIER NOTES**

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

## ND

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



info@physislabs.com



PHYSIS Project ID: 1407003-224

Client: Eurofins Eaton Analytical Project: Folder#989412 Job#1000014	eutral Extractable Compounds	RESULT DF MDL RL Fraction QA CODE Batch ID Date Processed Date Analyzed	Matrix: Samplewater Sampled: 22-Feb-22 9:30 Received: 28-Feb-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	ND <sub>1</sub> 0.05 0.1 Total O-35094 01-Mar-22 24-Mar-22	1 0.05 0.1
Client: Eurofin Project: Folde	spunodu			Total	Total															
	le Cor	RL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	actab		er	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	Extra		mplewat	-	~	~	~	-	-	~	-	~	~	-	~	~	~	~	~	-
	eutral	RESUL	Matrix: Sa	ND	ND	ΩN	ND	Q.	Ω	ND										
	Base/N	Units		hg/L	hg/L															
AGDA AURA RATORIES, INC. for Nature		Method	202202240770 MOANALUA WELLS	EPA 625.1	EPA 625.1															
TERRA FAUNA FLORA AGUA AURA ENVIRONMENTAL LABORATORIES, INC. Innovative Solutions for Nature		ANALYTE	Sample ID: 95480-R1	2-Chloronaphthalene	2-Nitroaniline	3-Nitroaniline	4-Bromophenylphenyl ether	4-Chloroaniline	4-Chlorophenylphenyl ether	4-Nitroaniline	Aniline	Benzidine	Bis(2-Chloroethoxy) methane	Bis(2-Chloroethyl) ether	Bis(2-Chloroisopropyl) ether	D benzofuran	Hexachloroethane	Nitrobenzene	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine



info@physislabs.com

		QA CODEc		.22																	
3-224 alytical Job # 1000014	QUALITY CONTROL REPORT	PRECISION QA % LIMITS	Received:	Analyzed: 24-Mar-22																	
PHYSIS Project ID: 1407003-224 Client: Eurofins Eaton Analytical Project: Folder#989412 Job#1000014	QUALITY CON	ACCURACY % LIMITS	Sampled:	Prepared: 01-Mar-22																	
¥ 5 ¥		SPIKE SOURCE LEVEL RESULT		4																	
	spun	UNITS SP	Matrix: BlankMatrix	Batch ID: 0-35094	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	µg/L	hg/L	hg/L	µg/L	hg/L
	Compounds	P. C			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	ble Co	MDL	h		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	tracta	JLT DF	QAQC Procedural Blank	625.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
i z	al Ext	RESULT	AQC Proce	Method: EPA 625.1	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
AGUA AURA ATORIES, I	Base/Neutral Extractable	FRACTION			Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
ENVIRONMENTAL LABORATORIES, INC.	Base/	ANALYTE	Sample ID: 95479-B1		2-Chloronaphthalene	2-Nitroaniline	3-Nitroaniline	4-Bromophenylphenyl ether	4-Chloroaniline	4-Chlorophenylphenyl ether	4-Nitroaniline	Aniline	Benzidine	Bis(2-Chloroethoxy) methane	Bis(2-Chloroethyl) ether	Bis(2-Chloroisopropyl) ether	Dibenzofuran	Hexachloroethane	Nitrobenzene	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine

info@physislabs.com

www.physislabs.com

fax: (714) 602-5321

main: (714) 602-5320

1904 E. Wright Circle, Anaheim CA 92806



PHYSIS Project ID: 1407003-224

Client: Eurofins Eaton Analytical

Project: Folder # 989412 Job # 1000014

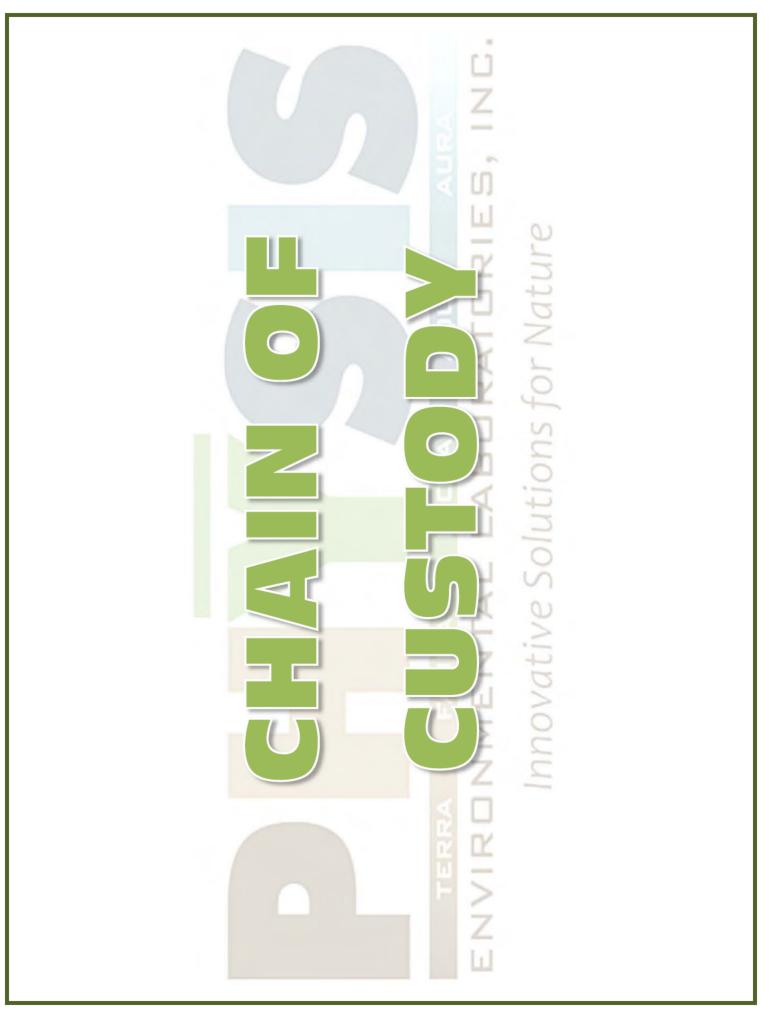
Base	Base/Neutral Extractable Compounds	Extra	ctabl	e Con	npo	spun		o	NAL	ITY CC	NTR	QUALITY CONTROL REPORT	RT
ANALYTE	FRACTION	RESULT	DF MDL	DL RL		UNITS	SPIKE	SPIKE SOURCE	ě ,	ACCURACY		PRECISION	QA CODEC
								KESULI	9	CIMILS			
Sample ID: 95479-BS1		QAQC Procedural Blank	al Blank			Matrix: BlankMatrix	ankMatri		Sampled:			Received:	
	Meth	Method: EPA 625.1				Batch ID: 0-35094	35094	Pre	Prepared: 01-Mar-22	1-Mar-22		Analyzed: 24-Mar-22	4-Mar-22
2-Chloronaphthalene	Total	0.806	-	0.05	0.1	µg/L	-	0	81	53 - 130%	PASS		
2-Nitroaniline	Total	0.775	-	0.05	0.1	µg/L	-	0	22	69 - 114%	PASS		
3-Nitroaniline	Total	0.864	-	0.05	0.1	µg/L	-	0	98	23 - 137%	PASS		
4-Bromophenylphenyl ether	Total	0.918	-	0.05	0.1	hg/L	-	0	95	61 - 132% PASS	PASS		
4-Chloroaniline	Total	1.09	-	0.05	0.1	hg/L	-	0	109	50 - 150% PASS	PASS		
4-Chlorophenylphenyl ether	Total	0.885	-	0.05	0.1	hg/L	-	0	88	63 - 130% PASS	PASS		
4-Nitroaniline	Total	0.708	-	0.05	0.1	µg/L	-	0	71	10 - 159%	PASS		
Aniline	Total	0.738	-	0.05	0.1	hg/L	-	0	74	50 - 150%	PASS		
Benzidine	Total	96.3	-	0.05	0.1	µg/L	100	0	96	0 - 125%	PASS		
Bis(2-Chloroethoxy) methane	e Total	0.797	-	0.05	0.1	hg/L	-	0	80	66 - 122%	PASS		
Bis(2-Chloroethyl) ether	Total	0.738	-	0.05	0.1	hg/L	-	0	74	43 - 127% PASS	PASS		
Bis(2-Chloroisopropyl) ether	Total	0.759	-	0.05	0.1	hg/L	-	0	9/	49 - 128% PASS	PASS		
Dibenzofuran	Total	0.857	-	0.05	0.1	µg/L	-	0	86	50 - 150% PASS	PASS		
Hexachloroethane	Total	0.665	-	0.05	0.1	hg/L	-	0	29	27 - 130% PASS	PASS		
Nitrobenzene	Total	0.674	-	0.05	0.1	hg/L	-	0	29	54 - 111%	PASS		
N-Nitrosodi-n-propylamine	Total	0.649	-	0.05	0.1	hg/L	-	0	65	61 - 152%	PASS		
N-Nitrosodiphenylamine	Total	0.85	-	0.05	0.1	µg/L	-	0	82	49 - 142% PASS	PASS		

info@physislabs.com



Project: Folder # 989412 Job # 1000014 Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-224

	DEc																				
RT	QA CODEC			4-Mar-22	(O	m	m	m	m	m	m	m	m	m	m	w	w	w	m	m	m
EPO	NOIS	LIMITS	Received:	Analyzed: 24-Mar-22	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS	30 PASS
OL R	PRECISION	/ %	Rec	Ar	2	<del>د</del>	24 3	0	<del>-</del>	<del>د</del>	ω	е е	0	е е	<sub>6</sub>	<del>د</del>	<del>-</del>	0	2	12	<del>-</del>
NTR					PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
QUALITY CONTROL REPORT	ACCURACY	LIMITS		Ir-22	53 - 130% F	69 - 114% F	23 - 137% F	61 - 132% F	50 - 150% F	63 - 130% F	10 - 159% F	50 - 150% F	0 - 125% F	66 - 122% F	43 - 127% F	49 - 128% F	50 - 150% F	27 - 130% F	54 - 111% F	61 - 152% F	49 - 142% F
ALIT	ACCL	1 %	:pa	Prepared: 01-Mar-22	26 62	99 62	110 23	92 6	108 50	89 63	77 10	76 50	0 96	79 66	76 43	75 49	85 50	66 27	99	73 67	86 46
Q	H		Sampled:	Prepar			_		_								-			ľ	
	SOURCE	RESULT	trix		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SPIKE	LEVEL	lankMat	-35094	-	-	<del>-</del>	-	-	-	-	-	100	-	-	-	-	-	-	-	-
Base/Neutral Extractable Compounds	UNITS		Matrix: BlankMatrix	Batch ID: 0-35094	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L	hg/L
duc	귎				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ole Co	MDL		3		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
ctab	占		al Blank		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extra	RESULT		QAQC Procedural Blank	Method: EPA 625.1	0.786	0.791	<u> </u>	0.922	1.08	0.892	0.77	0.761	36.5	0.785	0.761	0.75	0.848	0.657	0.657	0.732	0.856
utral	NOIL		QAQC	Method	<u>=</u>	<u>a</u>	<u>a</u>	а	<u></u>	<u>a</u>	<u></u>	<u>a</u>	<u></u>	<u>a</u>	<u></u>	<u>a</u>	<u></u>	<u>a</u>	<u>_</u>	<u>a</u>	<u>-</u>
Nei	FRACTION		9-BS2		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Base			D: 9547		e			nyl ether		nyl ether				) methane	ether	pyl) ether				ylamine	ımine
	ANALYTE		Sample ID: 95479-BS2		2-Chloronaphthalene	2-Nitroaniline	3-Nitroaniline	4-Bromophenylphenyl ether	4-Chloroaniline	4-Chlorophenylphenyl ether	4-Nitroaniline	Aniline	Benzidine	Bis(2-Chloroethoxy) methane	Bis(2-Chloroethyl) ether	Bis(2-Chloroisopropyl) ether	Dibenzofuran	Hexachloroethane	Nitrobenzene	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine



Date: 2/28/2022

ST PWSID Static ID: Clip Code Matrix Sample Point ID: Time Sample Date & Time 02/22/22 0930 Facility ID: 625 Base Neutral Extractable in ug/L Analysis Requested Client Sample ID for reference onl MOANALUA WELLS (331-223-TP202) Sample Event: Prep Method Sample ID 202202240770 Sample type: Method

**EPA 625** 

An Acknowledgement of Receipt is requested to attn. Jackie Contreras NOTIFICATION REQUIRED IF RECEIVED QUTSIDE OF 0-6 CELSIUS

Page 1 of 2

Time

Date Date

Time

Date

Sample Control

Relinquished

Sample Control

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Received by:

Relinquished Received by:



## S

Sample Receipt Summary		older # 989412 of 2	Job # 1000014
Receiving Info  1. Initials Received By:	Bottle Label Color: N	NA	
2. Date Received: 2/28/22			
3. Time Received:			
4. Client Name: Fino Sin S			
5 Courier Information: (Please circle)			
Client	<ul> <li>Area Fas</li> </ul>	st	<ul> <li>DRS</li> </ul>
FedEx     GSO/GLS	<ul> <li>Ontrac</li> </ul>		<ul> <li>PAMS</li> </ul>
PHYSIS Driver:			
i. Start Time:		iii. Total Mileag	ge:
ii. End Time:			Pickups:
6. Container Information: (Please put the # of c	ontainers or circle none)		
• Cooler   • Styrofoam Coole	r • Boxe	es	<ul> <li>None</li> </ul>
<ul> <li> Carboy(s)</li> <li> Carboy Trash Can</li> </ul>	(s) • Carbo	oγ Cap(s)	<ul> <li>Other</li> </ul>
8. Randomly Selected Samples Temperature (°Conspection Info  1. Initials Inspected By:  3. COC(s) Included and completely filled out  4. All samples listed on COC(s) are present  4. Information on containers consistent with information on containers and volume for all analyses.  6. All samples received within method holding to Correct preservation used for all analyses incompletely filled out	formation on COC(s) es indicatedtime		No No No No No No No No No
o. Nume of sumpler included on cools/immining	Notes:	105 /	
On Eurobing label it says		11:7	

Project Iteration ID: 1407003-224

Client Name:

**Eurofins Eaton Analytical** 



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

Date: 03-10-2022

EMAX Batch No.: 22B260

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 989412

Enclosed is the Laboratory report for samples received on 02/25/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202202240770	B260-01 02/22/22	WATER	TPH GASOLINE TPH
202202240774	B260-02 02/22/22	WATER	TPH GASOLINE
202202240770MS	B260-01M 02/22/22	WATER	TPH GASOLINE TPH
202202240770MSD	B260-01S 02/22/22	WATER	TPH GASOLINE TPH

The results are summarized on the following pages.

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

Sincerety yours,

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 CA002912021-19 ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing California ELAP Accredited Certificate Number 2672

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St.

Torrance, CA 90505

Submittal Form

\*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder# 989412 Job # 1000014

Date: 2/25/2022

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature.

The Date for squeets have a right DESTRUCTION OF STREET Eurofins Eaton Analytical, LLC 750 Royal Caks Drive, Suite 100, Monrovia, CA 91015 Accounts Payable 2425 New Hollend Pine Lennester PA 17675 Reports: Jackie Contraras Sub-Contracting Administrator Involces to Eurofins Eaton Analytical, LLC 1912年11日 1913年 | 1913

2-3 day rush

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

989412

03/01/2022

ST. **PWSID** Static ID: Clip Code Sample Date & Time Matrix Sample Point ID: 02/22/22 0930 Facility ID: Client Sample ID for reference onl MOANALUA WELLS (331-223-TP202) Sample Event: 202202240770 Sample type: Sample ID

Method	Prep Method	Analysis Requested
SW 8015B	EPA 5030C	(SUB)Gas Fraction Hydrocarbons
SW 8015B	EPA 3550B	TPH 8015 Diesel and Motor Oil
EPA 8015	EPA 8015	Jet Fuel 5 C8-C18
FPA 8015		Jet Fuel 8 C8-C18

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Sample ID 20220224077	ample type:	/ethod
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(SUB)Gas Fraction Hydrocarbons

**EPA 5030C** 

SW 8015B

4

ST

An Acknowledgement of Receipt is requested to attn. Jackle Contreras NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS TEMP OI 1.2/07 23.012-5 Date 2/25/22 Time 158m Date 22/25/22 Time 11:70 Date 3/2/2/Fime 13:08 Date 022522\_ Time\_ Sample Control (つ, 2だ(可いこん JHOWIN Zamora Sample Control / 11/12 Chesies Relinquished by: Reinquished by: Received by: Received by: Page 31 of 80 pages

REPORT ID: 22B258<sup>50</sup> Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton Page 1 of 3

Page 2 of 35

Reference: Addendum SM02.11.1

Form: SM02F1

		<del></del>		!		
Type of D			Airbill / Track	ing Number	ECN 22 B2 60	
☐ Fedex ☐ UPS ☐ GSO	☐ Others	<u> </u>			Recipient JHOWIN 7	75mor2
☐ EMAX Courier	ivery				Date 2/25/25	Time 1308
COCANODOCTON						
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)	Z TAT
Safety Issues (if any)	☐ High concentrations exp	ected	☐ From Superfund Site	☐ Rad screening required		
Note:						
N						
PACKAGING INSPECTION	ON					
Container *CONFLATON	Cooler		□ Box	☐ Other		
Condition Pauly	☐ Custody Seal		☐ Intact	□ Damaged		
Packaging -0.5	☐ Bubble Pack		□ Styrofoam	□ Popcom ·	☐ Sufficient	
1		<b>-</b>	•	•		
Temperatures	Cooler 1 12 0.7 °C	L Coc	oler 2 3.0/15 °C	Ø Cooler 3 <u>1.7/1.3</u> °C	□ Cooler 4°C	☐ Cooler 5°C
(Cool, ≤6 °C but not frozen)	Cooler 6°C	☐ Coc	oler 7°C	Cooler 8°C CS/N 21027 1399	□ Cooler 9°C	☐ Cooler 10°C
Thermometer:	Cooler 6°C A - S/N 210191066	4 da	B-S/N 210271396	(c) S/N 21027 1399	D - S/N	
Comments:  Temperature is or	ut of range. PM was inform	d IMM	EDIATELY.			
Note:	_					······································
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DISCREPANCIES						
LabSampleID	LabSampleContainerID	Code	ClientSample La	abel ID / Information	Corrective	Action
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☐ pH holding time requirement	nt for water samples is 15 m	ins. Wa	iter samples for pH analy	sis are received beyond 15 m	ninutes from sampling time.	145 440/1-
NOTES/ODSEDVATIONS						•
NOTES/OBSERVATIONS	:					
			****	*		
LEGEND:					☐ Continue to next pa	ge.
Code Description-Sample Man	agement	Code	Description-Sample Mana	gement	Code Description-Sample Mana	agement
D1 Analysis is not indicated in	1	D13	Out of Holding Time		R1 Proceed as indicated in  CC	C 🗆 Label
D2 Analysis mismatch COC vs			Bubble is >6mm		R2 Refer to attached instruction	
•						
D3 Sample ID mismatch COC			No trip blank in cooler		R3 Cancel the analysis	
D4 Sample ID is not indicated			Preservation not indicated in		R4 Use vial with smallest bubble	first
D5 Container -[improper] [leal	king] [broken]	<b>D17</b>	Preservation mismatch COC	C vs label	R5 Log-in with latest sampling da	ate and time+1 min
D6 Date/Time is not indicated	in	D18	Insufficient chemical preser	rvative	R6 Adjust pH as necessary	
D7 Date/Time mismatch COC		D19	Insufficient Sample		R7 Filter and preserved as necessi	arv
D8 Sample listed in COC is no			No filtration info for dissolv	ved analysis	ne	
•				·		
D9 Sample received is not liste			No sample for moisture determ	nmatton	R9	
D10 No initial/date on correctio	t ·	D22 _			R10	
D11 Container count mismatch	COC vs received	D23_			R11	
D12 Container size mismatch C	OC vs received ,	/ D24			R12	
REVIEWS:	maria 1/	/ ~	<b>h</b>		***************************************	00
Sample Labeling	VITOWIN /	1/ A	SRF	(MANIA)	PM	11115.
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Date	-4-97999	UV.	Date	- pajou	Date	- Marie
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## **REPORTING CONVENTIONS**

## **DATA QUALIFIERS:**

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
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: 22B258

## LABORATORY REPORT FOR

## **EUROFINS EATON ANALYTICAL**

989412

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

SDG#: 22B260

REPORT ID: 22B258 Pages of 350 pages

## CASE NARRATIVE

Client: EUROFINS EATON ANALYTICAL

Project: 989412

SDG : 22B260

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 02/25/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

## Holding Time

Samples were analyzed within the prescribed holding time.

## Calibration

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

## Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VG39B13B - 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. VG39B13L/VG39B13C 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 B260-01M/B260-01S. 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.

REPORT ID: 22B258

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

	CLION THE PROPERTY FATOR AND VICAL							SDG NO.	: 228260
	1115 EALON ANALI 11501E							Instrument	Instrument ID : GCT039
ij									
				MA	WATER				
Client	Laboratory	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch N	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 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 1 1 1		
MBLK1W	VG39B13B	-	NA	02/25/2213:40	02/25/2213:40	EB25004A	EB25003A	22VG39B13 M	22VG39B13 Method Blank
LCS1W	VG39B13L	•	NA	02/25/2214:16	02/25/2214:16	EB25005A	EB25003A	22VG39B13 L	22VG39B13 Lab Control Sample (LCS)
LCD1W	VG39B13C	1	NA	02/25/2214:52	02/25/2214:52	EB25006A	EB25003A	22VG39B13 L	22VG39B13 LCS Duplicate
202202240770	B260-01	•	NA	02/25/2220:20	02/25/2220:20	EB25015A	EB25013A	22VG39B13 F	22VG39B13 Field Sample
202202240770MS	B260-01M	•	AN	02/25/2220:56	02/25/2220:56	EB25016A	EB25013A	22VG39B13 M	22VG39B13 Matrix Spike Sample (MS)
202202240770MSD	B260-01S	<b>.</b>	AN	02/25/2221:33	02/25/2221:33	EB25017A	EB25013A	22VG39B13 M	22VG39B13 MS Duplicate (MSD)
202202240774	B260-02	<b>~</b>	NA	02/25/2222:09	02/25/2222:09	EB25018A	EB25013A	22VG39B13 F	22VG39B13 Field Sample

FN - Filename % Moist - Percent Moisture

# **SAMPLE RESULTS**

REPORT ID: 22B258

#### METROD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

\_\_\_\_\_\_

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 09:30

Date Received: 02/25/22

Project : 989412
Batch No. : 22B260
Sample ID : 202202240770 Date Extracted: 02/25/22 20:20 Date Analyzed: 02/25/22 20:20

Lab Samp ID: B260-01 Dilution Factor: 1 Matrix: WATER Lab File ID: EB25015A Ext Btch ID: 22VG39B13 % Moisture: NA Instrument ID: 39 Calib. Ref.: EB25013A

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

QC LIMIT SPK\_AMT %RECOVERY SURROGATE PARAMETERS RESULT 0.0321 0.0400 80 60-140 Bromofluorobenzene

Notes:

H-C Range Parameter Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume: 5ml Sample Amount : 5ml

Analyzed by : SCerva Prepared by : SCerva

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 09:30

Date Received: 02/25/22 Date Extracted: 02/25/22 Project : 989412 Batch No. : 22B260 Sample ID : 202202240774 Date Extracted: 02/25/22 22:09 Date Analyzed: 02/25/22 22:09

Dilution Factor: 1 Lab Samp ID: B260-02 Lab File ID: EB25018A Matrix: WATER Ext Btch ID: 22VG39B13 % Moisture: NA Calib. Ref.: EB25013A Instrument ID: 39

\_\_\_\_\_\_

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

QC LIMIT SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY Bromofluorobenzene 0.0321 0.0400 80 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.

Final Volume: 5ml Sample Amount : 5ml

Prepared by : SCerva Analyzed by : SCerva

# **QC SUMMARIES**

REPORT ID: 22B258

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/25/22 13:40

Date Received: 02/25/22

Project : 989412 Batch No. : 22B260 Date Extracted: 02/25/22 13:40 Sample ID : MBLK1W Date Analyzed: 02/25/22 13:40

Lab Samp ID: VG39B13B Dilution Factor: 1 Lab File ID: EB25004A Matrix: WATER Ext Btch ID: 22VG39B13 % Moisture: NA Calib. Ref.: EB25003A Instrument ID: 39

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

QC LIMIT SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY Bromofluorobenzene 0.0322 0.0400 60-140

\_\_\_\_\_\_\_

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume: 5ml Prepared by : SCerva Analyzed by : SCerva

#### EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL PROJECT : 989412 BATCH NO. : 22B260 METHOD : 5030B/8015B

MATRIX : WATER DILUTION FACTOR: 1

1

% MOISTURE:NA

SAMPLE ID : MBLK1W

LCS1W VG39B13L LCD1W VG39B13C

LAB FILE ID : EB25004A
DATE PREPARED : 02/25/22 13:40

LAB SAMPLE ID : VG39B13B

EB25005A 02/25/22 14:16

EB25006A 02/25/22 14:52

DATE ANALYZED : 02/25/22 13:40

02/25/22 14:16

02/25/22 14:52

PREP BATCH : 22VG39B13 CALIBRATION REF: EB25003A

22VG39B13 EB25003A

22VG39B13 EB25003A

ACCESSION:

MBResult SpikeAmt LCSResult LCSRec SpikeAmt LCDResult LCDRec RPD QCLimit MaxRPD PARAMETERS (mg/L) (%) (mg/L) (mg/L) (mg/L) (mg/L) (%) (%) (%) (%) \_\_\_\_\_ Gasoline ND 0.500 0.429 86 0.500 0.429 86 60-130

SpikeAmt LCSResult LCSRec SpikeAmt LCDResult LCDRec QCLimit SURROGATE PARAMETER (mg/L) (%) (mg/L) (mg/L) (%) (mg/L) (%) \_\_\_\_\_\_ -----------0.0406 102 0.0400 0.0400 0.0409 102 70-130 Bromofluorobenzene

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

#### EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT : 989412 BATCH NO. : 228260 METHOD : 5030B/8015B

MATRIX : WATER

% MOISTURE:NA

DILUTION FACTOR: 1

SAMPLE ID : 202202240770

202202240770MSD

LAB SAMPLE ID : B260-01

B260-01S

B260-01M

LAB FILE ID : EB25015A
DATE PREPARED : 02/25/22 20:20

EB25016A

EB25017A

02/25/22 20:56

02/25/22 21:33

DATE ANALYZED : 02/25/22 20:20 PREP BATCH : 22VG39B13

02/25/22 20:56

02/25/22 21:33

22VG39B13

22VG39B13

CALIBRATION REF: EB25013A

EB25013A

202202240770MS

EB25013A

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	0.495	99	0.500	0.498	100	1	50-130	30
######################################	========	<b>=====</b>	=======================================	= = = = = = = = = = = = = = = = = = =	<b></b>	=======================================	=======	======	========	======
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0410	103	0.0400	0.0426	107		60-140	

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

### LABORATORY REPORT FOR

## **EUROFINS EATON ANALYTICAL**

989412

# METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22B260

REPORT ID: 22B258

Client: EUROFINS EATON ANALYTICAL

Project: 989412

SDG : 22B260

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 02/25/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

#### Holding Time

The sample was analyzed within the prescribed holding time.

#### Calibration

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

#### Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSB035WB - 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 DSB035WL. 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 22B260-01M/22B260-01S. 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.

Client : EUROFINS EATON ANALYTICAL

Project: 989412

SDG : 22B260

#### METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/25/22 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. DSB035WB - 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 JP5 was within LCS QC limits in J5B035WL. 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. JP5 was within MS QC limits in 22B260-01M/22B260-01S. 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.

Client : EUROFINS EATON ANALYTICAL

Project: 989412

SDG : 22B260

#### METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 02/25/22 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. DSB035WB - 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 JP8 was within LCS QC limits in J8B035WL. 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. JP8 was within MS QC limits in 22B260-01M/22B260-01S. 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.

REPORT ID: 22B258

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

									טון טעט	. 228260
client	Client : EUROFINS EATON ANALYTICAL	ANALYTICAL							SUG NO.	72520
Project	: 989412								Instrument	co.
	; <u></u>			11 11 11 11 11 11						
					WA	WATER				
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	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 1 1		
MRI K1U		DSB035WB	_	AN	03/01/2217:05	02/28/2214:15	LC01011A	LC01004A	22DSB035W N	22DSB035W Method Blank
1 CS 1W		DSB035WL	-	N A	03/01/2217:24	02/28/2214:15	LC01012A	LC01004A	22DSB035W	2DSB035W Lab Control Sample (LCS)
202202240770	20	B260-01	-	N	03/01/2218:56	02/28/2214:15	LC01017A	LC01004A	22DSB035W I	2DSBO35W Field Sample
202202240770MS	70MS	B260-01M	-	NA	03/01/2219:14	02/28/2214:15	LC01018A	LC01004A	22DSB035W N	2DSBO35W Matrix Spike Sample (MS)
202202240770MSD	ZOMSD	B260-01S	-	NA	03/01/2219:32	02/28/2214:15	LC01019A	LC01004A	22DSB035W N	22DSBO35W MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

. tont	Client · FIRDEINS FATON ANALYTICAL	NALYTICAL							SDG NO.	: 22B260
	989412								Instrumen	instrument ID : 05
			: # # # # # # # # # # # # # # # # # # #			11 11 11 11 11 11 11 11 11 11 11 11 11		11 11 11 11 11 11 11 11		
					WATER	ER				
ol ient		Laboratory	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	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		DSB035WB	_	AN	03/01/2217:05	02/28/2214:15	LC01011A	LC01005A	22DSB035W	Z2DSB035W Method Blank
I CS TW		J5B035WL	,-	A	03/01/2217:42	02/28/2214:15	LC01013A	LC01005A	22DSB035W	22DSB035W Lab Control Sample (LCS)
202202240770		B260-01	-	AN	03/01/2218:56	02/28/2214:15	LC01017A	LC01005A	22DSB035W	22DSB035W Field Sample
20220240770MS	SWC	B260-01M	-	NA	03/01/2219:50	02/28/2214:15	LC01020A	LC01005A	22DSB035W	22DSB035W Matrix Spike Sample (MS)
202202240770MSD	OMSD	B260-01S	-	NA	03/01/2220:09	02/28/2214:15	LC01021A	LC01005A	22DSB035W	22DSB035W MS Duplicate (MSD)

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

									2	. 220240
Client	: EUROFINS EATON ANALYTICAL	ANALYTICAL							SO BO	00292
Project	: 989412								Instrumen	05
				11 11 15 15 11 11		## 11				
					WATER	ER				
Client		Laboratory	aboratory Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID		Sample ID	Factor	Moist	DateTime	Datelime	Data FN	Data FN	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	t t t 1	: : : : : : : : : : : : : : : : : : : :		
MBI K1W		DSB035WB	-	NA	03/01/2217:05	02/28/2214:15	LC01011A	LC01006A	22DSB035W	22DSB035W Method Blank
LCS1W		J8B035WL	_	NA	03/01/2218:00	02/28/2214:15	LC01014A	LC01006A	22DSB035W	22DSB035W Lab Control Sample (LCS)
202202240770	770	B260-01	-	Ν	03/01/2218:56	02/28/2214:15	LC01017A	LC01006A	22DSB035W	22DSB035W Field Sample
202202240770MS	70MS	B260-01M	-	N	03/01/2220:27	02/28/2214:15	LC01022A	LC01006A	22DSB035W	:2DSB035W Matrix Spike Sample (MS)
202202240770MSD	770MSD	B260-01S	-	NA	03/01/2220:46	02/28/2214:15	LC01023A	LC01006A	22DSB035W	22DSB035W MS Duplicate (MSD)

# **SAMPLE RESULTS**

REPORT ID: 22B258

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

\_\_\_\_\_

: EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 09:30 Client

Project : 989412 Batch No. : 22B260 Sample ID : 202202240770 Date Received: 02/25/22 Date Extracted: 02/28/22 14:15 Date Analyzed: 03/01/22 18:56

Dilution Factor: 1 Lab Samp ID: 22B260-01 Lab File ID: LC01017A Matrix: WATER % Moisture: NA Ext Btch ID: 22DSB035W Calib. Ref.: LC01004A Instrument ID: D5

\_\_\_\_\_\_

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/l)	
Diesel	ND	0.028	0.014	
Motor Oil	ND	0.056	0.028	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.399	0.560	71	60-130
Hexacosane	0.150	0.140	107	60-130

Notes:

H-C Range Parameter C10-C24 Diesel Motor Oil C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 890ml Final Volume : 5ml

Analyzed by : SDeeso Prepared by : JMuert

## METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 09:30

Project : 989412 Date Received: 02/25/22 Batch No. : 22B260 Date Extracted: 02/28/22 14:15 Sample ID : 202202240770 Date Analyzed: 03/01/22 18:56

Lab Samp ID: 22B260-01 Dilution Factor: 1
Lab File ID: LC01017A Matrix: WATER
Ext Btch ID: 22DSB035W % Moisture: NA
Calib. Ref.: LC01005A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.056	0.028	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT

Bromobenzene 0.399 0.560 71 60-130 Hexacosane 0.150 0.140 107 60-130

Notes:

RL: 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 : 890ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

## METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 09:30

Project : 989412 Date Received: 02/25/22 Batch No. : 22B260 Date Extracted: 02/28/22 14:15 Sample ID : 202202240770 Date Analyzed: 03/01/22 18:56

 Lab Samp ID: 22B260-01
 Dilution Factor: 1

 Lab File ID: LC01017A
 Matrix: WATER

 Ext Btch ID: 22DSB035W
 % Moisture: NA

 Calib. Ref.: LC01006A
 Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.056	0.028	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.399	0.560	71	60-130

 Bromobenzene
 0.399
 0.560
 71
 60-130

 Hexacosane
 0.150
 0.140
 107
 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 : 890ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

# **QC SUMMARIES**

REPORT ID: 22B258

#### METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

\_\_\_\_\_\_\_

: EUROFINS EATON ANALYTICAL Date Collected: 02/28/22 14:15 Client

Project : 989412 Batch No. : 22B260 Sample ID : MBLK1W Date Received: 02/28/22 Date Extracted: 02/28/22 14:15 Date Analyzed: 03/01/22 17:05

Lab Samp ID: DSB035WB Dilution Factor: 1 Lab File ID: LC01011A Matrix: WATER Ext Btch ID: 22DSB035W % Moisture: NA Calib. Ref.: LC01004A Instrument ID: D5

\_\_\_\_\_\_

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.311	0.500	62	60-130
Hexacosane	0.121	0.125	97	60-130

Notes:

Parameter H-C Range C10-C24 Diesel C24-C36 Motor Oil

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 : JMuert Analyzed by : SDeeso

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 989412 BATCH NO. : 22B260 METHOD : 3520C/8015B

\_\_\_\_\_\_\_\_

MATRIX : WATER % MOISTURE:NA DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W
LAB SAMPLE ID : DSB035WB DSB035WL

LAB FILE ID : LC01011A LC01012A

DATE PREPARED : 02/28/22 14:15

DATE ANALYZED : 03/01/22 17:05 03/01/22 17:24

PREP BATCH : 22DSB035W 22DSB035W

CALIBRATION REF: LC01004A LC01004A

#### ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.43	97	50-130
	=======================================		=======================================		=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.367 0.139	73 111	60-130 60-130

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MB: Method Blank sample LCS: Lab Control Sample

#### EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO.

: 989412 : 22B260

METHOD

: 3520C/8015B

: WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202202240770 LAB SAMPLE ID : 22B260-01

202202240770MS 22B260-01M

202202240770MSD 22B260-01S

LAB FILE ID : LC01017A DATE PREPARED : 02/28/22 14:15

LC01018A

LC01019A

DATE ANALYZED : 03/01/22 18:56 PREP BATCH : 22DSB035W

02/28/22 14:15 03/01/22 19:14 02/28/22 14:15 03/01/22 19:32 22DSB035W

CALIBRATION REF: LC01004A

22DSB035W LC01004A

LC01004A

#### ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.88	2.83	98	2.85	2.84	100	0	50-130	30
			========	======	=======	========	:	======	========	
		SpikeAmt	MSResult	MSRec	SpikeAmt	MSDResult	MSDRec		QCLimit	
SURROGATE PARAMETERS		(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)		(%)	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~										•
Bromobenzene		0.575	0.491	85	0.570	0.479	84		60-130	
Hexacosane		0.144	0.160	111	0.142	0.159	112		60-130	
		=========	========	======	========	=========		=======	========	=======

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

#### METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

\_\_\_\_\_\_\_

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/28/22 14:15

Project : 989412 Batch No. : 22B260 Sample ID : MBLK1W Date Received: 02/28/22 Date Extracted: 02/28/22 14:15 Date Analyzed: 03/01/22 17:05

Lab Samp ID: DSB035WB Dilution Factor: 1 Matrix: WATER Lab File ID: LC01011A Ext Btch ID: 22DSB035W % Moisture: NA Instrument ID: D5 Calib. Ref.: LC01005A

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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	0.311 0.121	0.500 0.125	62 97	60-130 60-130

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Notes:

: Reporting Limit H-C Range Parameter

C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 1000ml

Prepared by : JMuert Analyzed by : SDeeso

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 989412 BATCH NO. : 22B260 METHOD : 3520C/8015B

MATRIX: WATER % MOISTURE:NA DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSB035WB J5B035WL

LAB FILE ID : LC01011A LC01013A

DATE PREPARED : 02/28/22 14:15 02/28/22

DATE PREPARED : 02/28/22 14:15 02/28/22 14:15
DATE ANALYZED : 03/01/22 17:05 03/01/22 17:42
PREP BATCH : 22DSB035W 22DSB035W
CALIBRATION REF: LC01005A LC01005A

#### ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.23	89	30-160
	========	=======================================	========		
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.397	79 107	60-130 60-130

\_\_\_\_\_\_

MB: Method Blank sample LCS: Lab Control Sample

#### **EMAX QUALITY CONTROL DATA** MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. 989412

METHOD

: 22B260 : 3520C/8015B

MATRIX : WATER DILUTION FACTOR: 1

CALIBRATION REF: LC01005A

% MOISTURE:NA

SAMPLE ID : 202202240770

202202240770MS

202202240770MSD

LAB SAMPLE ID : 22B260-01

22B260-01M

LC01020A

22B260-01S LC01021A

LAB FILE ID : LC01017A
DATE PREPARED : 02/28/22 14:15

02/28/22 14:15

02/28/22 14:15

DATE ANALYZED : 03/01/22 18:56

03/01/22 19:50

03/01/22 20:09

PREP BATCH : 22DSB035W

22DSB035W LC01005A

22DSB035W LC01005A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2,62	2.94	112	2.65	2.99	113	2	30-160	30
			south band tract track hold tong band bank bank bank bank bank bank bank bank		========			======	========	======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.525 0.131	0.480 0.137	91 104	0.530 0.132	0.461 0.143	87 108		60-130 60-130	

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

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/28/22 14:15

 Project
 : 989412
 Date Received: 02/28/22

 Batch No.
 : 22B260
 Date Extracted: 02/28/22 14:15

 Sample ID
 : MBLK1W
 Date Analyzed: 03/01/22 17:05

Lab Samp ID: DSB035WB Dilution Factor: 1
Lab File ID: LC01011A Matrix: WATER
Ext Btch ID: 22DSB035W % Moisture: NA
Calib. Ref.: LC01006A 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	0.311 0.121	0.500 0.125	62 97	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 : 1000ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

#### EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT PROJECT : EUROFINS EATON ANALYTICAL

BATCH NO.

: 989412

METHOD

: 22B260 : 3520C/8015B

\_\_\_\_\_\_

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

LCS1W

SAMPLE ID : MBLK1W LAB SAMPLE ID : DSB035WB

J8B035WL

DATE PREPARED : 02/28/22 14:15

LAB FILE ID : LCO1011A LC01014A

02/28/22 14:15

DATE ANALYZED : 03/01/22 17:05 PREP BATCH : 22DSB035W

03/01/22 18:00

22DSB035W

CALIBRATION REF: LC01006A

LC01006A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	2.05	82	30-160
	NO THESE SAME SAME SAME SAME SAME SAME SAME S	Then had been been and see and see part been been			
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.453 0.131	91 105	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

#### EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 989412

METHOD

: 22B260 : 3520C/8015B

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202202240770

202202240770MS

LAB SAMPLE ID : 22B260-01

22B260-01M

202202240770MSD 22B260-01S

LAB FILE ID : LC01017A DATE PREPARED : 02/28/22 14:15

LC01022A

LC01023A

DATE ANALYZED : 03/01/22 18:56 PREP BATCH : 22DSB035W

02/28/22 14:15 03/01/22 20:27 22DSB035W

02/28/22 14:15 03/01/22 20:46 22DSB035W

CALIBRATION REF: LC01006A

LC01006A

LC01006A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.62	2.47	94	2.60	2.76	106	11	30-160	30
=======================================	.=========	=========		======	========	==========	======	=======	=======================================	
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit ,(%)	
Bromobenzene Hexacosane		0.525 0.131	0.512 0.133	98 101	0.520 0.130	0.504 0.143	97 110		60-130 60-130	

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



April 13, 2022

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

Project Name: Folder # 989412 Job # 1000014

Physis Project ID: 1407003-224

Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 2/28/2022. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

**Organics** 

Base/Neutral Extractable Compounds by EPA 625.1

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

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

Regards,

Misty Mercier 714 602-5320 Extension 202

mistymercier@physislabs.com



### **PROJECT SAMPLE LIST**

Eurofins Eaton Analytical Folder # 989412 Job # 1000014 PHYSIS Project ID: 1407003-224
Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
95480	202202240770	MOANALUA WELLS (331-223-TP202)	2/22/2022	9:30	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
BS <sub>2</sub>	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



Innovative Solutions for Nature

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
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

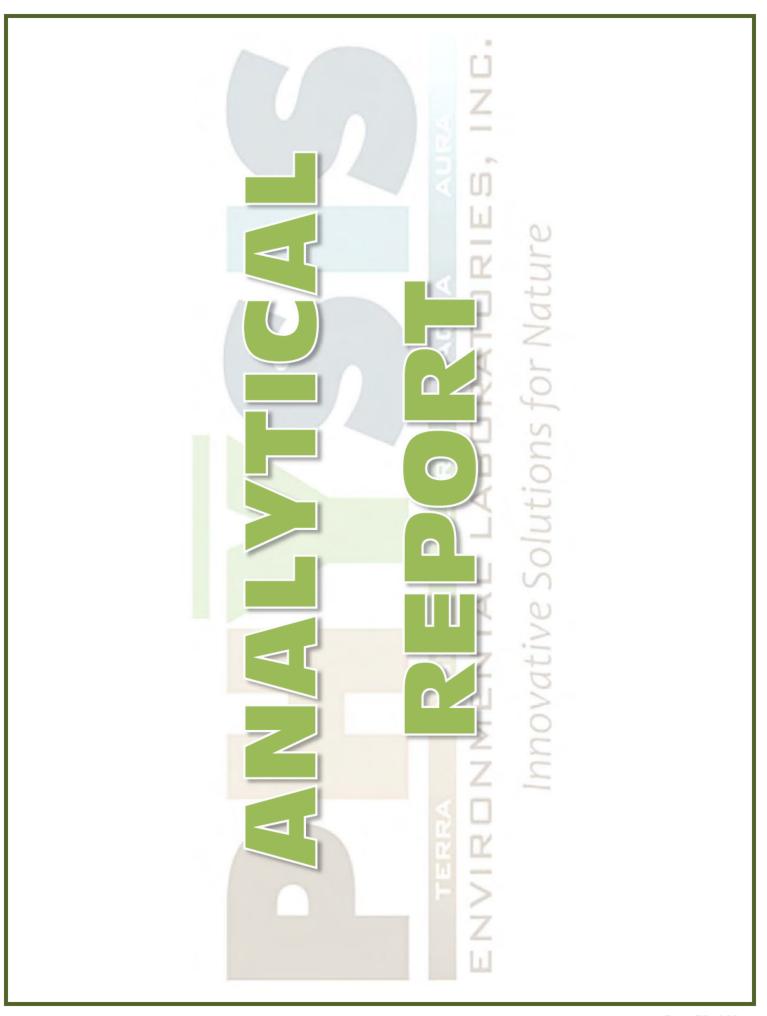


### **QUALIFIER NOTES**

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.



ar - 1 of 1



TERRA FAUNA FLORA AGUA AURA ENVIRONMENTAL LABORATORIES, INC. Innovative Solutions for Nature	AGUA AURA RATORIES, INC. for Nature						PHYSIS Pro Client: Eur Project: Fo	PHYSIS Project ID: 1407003-224 Client: Eurofins Eaton Analytical Project: Folder#989412 Job#1000014	al 1000014	
		Base/Neutral Extractable Compounds	utral E>	ktra	ctabl	le Co	mpodm	spi		
ANALYTE	Method	Units	RESULT	PF	MDL	RL	Fraction	QA CODE Batch ID Date Processed Date Analyzed	Date Processed	Date Analyzed
Sample ID: 95480-R1	202202240770 MOANALUA WELLS Matrix: Samplewater	LUA WELLS M	latrix: Sampl	ewater			Sampled:	22-Feb-22 9:30	Received:	28-Feb-22
2-Chloronaphthalene	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
2-Nitroaniline	EPA 625.1	hg/L	Q	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
3-Nitroaniline	EPA 625.1	hg/L	Q.	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
4-Bromophenylphenyl ether	EPA 625.1	hg/L	Q	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
4-Chloroaniline	EPA 625.1	hg/L	Q.	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
4-Chlorophenylphenyl ether	EPA 625.1	hg/L	Q	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
4-Nitroaniline	EPA 625.1	hg/L	Q.	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
Aniline	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
Benzidine	EPA 625.1	hg/L	Q	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
Bis(2-Chloroethoxy) methane	EPA 625.1	hg/L	N	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
Bis(2-Chloroethyl) ether	EPA 625.1	hg/L	Q.	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	hg/L	Q	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
D benzofuran	EPA 625.1	hg/L	Q.	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
Hexachloroethane	EPA 625.1	hg/L	Q.	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
Nitrobenzene	EPA 625.1	hg/L	Q.	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
N-Nitrosodi-n-propylamine	EPA 625.1	hg/L	Q.	-	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22
N-Nitrosodiphenylamine	EPA 625.1	hg/L	ND	_	0.05	0.1	Total	0-35094	01-Mar-22	24-Mar-22



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Project: Folder # 989412 Job # 1000014 Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-224

RT	QA CODEC			Analyzed: 24-Mar-22																	
(EPC	SION	LIMITS	Received:	nalyzed:																	
OL F	<b>PRECISION</b>	7 %	Rec	٧																	
QUALITY CONTROL REPORT																					
V C0	RACY	LIMITS		-22																	
LIT.	ACCURACY	_		Prepared: 01-Mar-22																	
dU/		%	Sampled:	Prepared																	
	SPIKE SOURCE	LEVEL RESULT																			
	PIKE	EVEL	Matrix: BlankMatrix	94																	
ds		_	x: Blan	Batch ID: 0-35094	٦	٦	٦	ب	ب	ب	٦	٦	٦	٦	٦	٦	٦	ہے	٦	ب	ب
Base/Neutral Extractable Compounds	UNITS		Matri	Batch	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	hg/L
duc	귎				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
le Co	MDL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
tab	PF A		Blank		-	_	-	_	-	_	-	_	-	_	-	_	-	_	-	_	-
trac	RESULT		QAQC Procedural Blank	A 625.1																	
al E	Æ		QC Pro	Method: EPA 625.1	Q	Q	N	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q.
eutra	FRACTION		QA	Mei	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
e/Ne	FRA		79-B1		-	٢	-		-		-	٢	_		-		-	-	-	٢	-
Bas			Sample ID: 95479-B1		e e			anyl ethe		nyl ether				/) methal	ether	pyl) ethe				ylamine	mine
	ш		ample I		aphthale	ine	ine	henylphe	niline	henylphe	ine			roethoxy	roethyl)	roisopro	ran	oethane	ane	di-n-prop	liphenyk
	ANALYTE		Š		2-Chloronaphthalene	2-Nitroaniline	3-Nitroaniline	4-Bromophenylphenyl ether	4-Chloroaniline	4-Chlorophenylphenyl ether	4-Nitroaniline	Aniline	Benzidine	Bis(2-Chloroethoxy) methane	Bis(2-Chloroethyl) ether	Bis(2-Chloroisopropyl) ether	Dibenzofuran	Hexachloroethane	Nitrobenzene	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine
			ᆫᆝ	1	•••		.,	•	•	1	•	•	_	_	_	_	_	_	_	_	_

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1904 E. Wright Circle, Anaheim CA 92806

PHYSIS Project ID: 1407003-224

Client: Eurofins Eaton Analytical

Project: Folder # 989412 Job # 1000014

Base	Base/Neutral Extractable Compounds	Extra	ctab	le Co	mpc	spund		0	\UAL	ITY CO	NTR	QUALITY CONTROL REPORT	RT
ANALYTE	FRACTION	RESULT	DF N	MDL	占	UNITS	SPIKE	SPIKE SOURCE		ACCURACY		PREC	QA CODEC
							LEVEL	KESULI	%	LIMIIS		% CIMIIS	
Sample ID: 95479-BS1		QAQC Procedural Blank	al Blank			Matrix: BlankMatrix	ankMatri		Sampled:			Received:	
	Metho	Method: EPA 625.1				Batch ID: 0-35094	35094	Ā	Prepared: 01-Mar-22	-Mar-22		Analyzed: 24-Mar-22	4-Mar-22
2-Chloronaphthalene	Total	0.806	-	0.05	0.1	hg/L	-	0	8	53 - 130%	PASS		
2-Nitroaniline	Total	0.775	-	0.05	0.1	hg/L	-	0	22	69 - 114%	PASS		
3-Nitroaniline	Total	0.864	-	0.05	0.1	hg/L	-	0	86	23 - 137%	PASS		
4-Bromophenylphenyl ether	Total	0.918	-	0.05	0.1	hg/L	-	0	92	61 - 132%	PASS		
4-Chloroaniline	Total	1.09	-	0.05	0.1	hg/L	-	0	109	50 - 150%	PASS		
4-Chlorophenylphenyl ether	Total	0.885	-	0.05	0.1	hg/L	-	0	88	63 - 130%	PASS		
4-Nitroaniline	Total	0.708	-	0.05	0.1	hg/L	-	0	11	10 - 159%	PASS		
Aniline	Total	0.738	-	0.05	0.1	hg/L	-	0	74	50 - 150%	PASS		
Benzidine	Total	96.3	-	0.05	0.1	hg/L	100	0	96	0 - 125%	PASS		
Bis(2-Chloroethoxy) methane	Total	0.797	-	0.05	0.1	hg/L	-	0	80	66 - 122%	PASS		
Bis(2-Chloroethyl) ether	Total	0.738	-	0.05	0.1	hg/L	-	0	74	43 - 127%	PASS		
Bis(2-Chloroisopropyl) ether	Total	0.759	-	0.05	0.1	hg/L	-	0	9/	49 - 128%	PASS		
Dibenzofuran	Total	0.857	-	0.05	0.1	hg/L	-	0	98	50 - 150%	PASS		
Hexachloroethane	Total	0.665	-	0.05	0.1	hg/L	-	0	29	27 - 130%	PASS		
Nitrobenzene	Total	0.674	-	0.05	0.1	hg/L	-	0	29	54 - 111%	PASS		
N-Nitrosodi-n-propylamine	Total	0.649	-	0.05	0.1	hg/L	-	0	92	61 - 152%	PASS		
N-Nitrosodiphenylamine	Total	0.85	-	0.05	0.1	hg/L	-	0	82	49 - 142% PASS	PASS		

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PHYSIS Project ID: 1407003-224

ical # 1000014	QUALITY CONTROL REPORT	PRECISION QA CODEC	% LIMITS	Received:	Analyzed: 24-Mar-22	2 30 PASS	1 30 PASS	24 30 PASS	0 30 PASS	1 30 PASS	1 30 PASS	8 30 PASS	3 30 PASS	0 30 PASS	3 30 PASS	3 30 PASS	1 30 PASS	1 30 PASS	0 30 PASS	2 30 PASS	12 30 PASS	
Client: Eurofins Eaton Analytical Project: Folder # 989412 Job # 1000014	ILITY CONT	ACCURACY	LIMITS		Prepared: 01-Mar-22	53 - 130% PASS	69 - 114% PASS	23 - 137% PASS	61 - 132% PASS	3 50 - 150% PASS	63 - 130% PASS	10 - 159% PASS	50 - 150% PASS	0 - 125% PASS	66 - 122% PASS	43 - 127% PASS	49 - 128% PASS	50 - 150% PASS	27 - 130% PASS	54 - 111% PASS	61 - 152% PASS	
Client: Eu Project: F	QUA	SOURCE	. RESULT %	trix Sampled:	Prepared	0 79	0 79	0 110	0 92	0 108	0 89	0 77	0 76	96 0	0 79	0 76	0 75	0 85	99 0	99 0	0 73	
	spuno	UNITS SPIKE	LEVEL	Matrix: BlankMatrix	Batch ID: 0-35094	hg/L 1	hg/L 1	hg/L 1	hg/L 1	hg/L 1	hg/L 1	hg/L 1	hg/L 1	µg/L 100	hg/L 1	hg/L 1	hg/L 1	hg/L 1	hg/L 1	hg/L 1	µg/L 1	
	ble Compo	MDL RL		ık		0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	0.05 0.1	
	ktracta	RESULT DF		QAQC Procedural Blank	A 625.1	0.786 1	0.791	1.1	0.922	1.08	0.892	0.77 1	0.761	96.5	0.785 1	0.761 1	0.75	0.848 1	0.657 1	0.657 1	0.732	
AGUA AURA IRATORIES, INC. for Nature	Base/Neutral Extractable Compounds	FRACTION RE			Method: EPA 625.1	Total 0.	Total 0.	Total 1.	Total 0.	Total 1.	Total 0.	Total 0.	Total 0.	Total 96	Total	Total 0.	Total	Total 0.	Total 0.	Total 0.	Total 0.	
TERRA FAUNA FLORA AGUA AUNA ENVIRONMENTAL LABORATORIES, INC. Innovative Solutions for Nature	Base	ANALYTE		Sample ID: 95479-BS2		2-Chloronaphthalene	2-Nitroaniline	3-Nitroaniline	4-Bromophenylphenyl ether	4-Chloroaniline	4-Chlorophenylphenyl ether	4-Nitroaniline	Aniline	Benzidine	Bis(2-Chloroethoxy) methane	Bis(2-Chloroethyl) ether	Bis(2-Chloroisopropyl) ether	Dibenzofuran	Hexachloroethane	Nitrobenzene	N-Nitrosodi-n-propylamine	



Date: 2/28/2022

JLS	O PARTITION OF THE PARTY OF THE		
PWSID	Static ID:		
Clip Code	STATE OF THE PARTY		
Sample Date & Time Matrix 02/22/22 0930 DW	Sample Point ID:		
	Facility ID:		table in ug/L
Client Sample ID for reference on! MOANALUA WELLS (331-223-TP202)	Sample Event:	Analysis Requested	625 Base Neutral Extractable in ug/L
Client Sample MOANALUA WEL		Prep Method	EPA 625
 Sample ID 202202240770	Sample type:	Method	EPA 625

An Acknowledgement of Receipt is requested to attn. Jackie Contreras NOTIFICATION REQUIRED IF RECEIVED QUTSIDE OF 0-6 CELSIUS

Page 1 of 2

Time

Time

Date Date Date Date

Sample Control

Relinquished

Sample Control

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Page 79 of 80 pages

Received by:

Relinquished Received by:



## S

Sample Receipt Summary	COC Page Number: 2 of 2	412 Job # 1000014
Receiving Info	Bottle Label Color: NA	
1. Initials Received By: ,		
2. Date Received: 2/28/22		
3. Time Received:		
4. Client Name: Fire Gins		
5 Courier Information: (Please circle)		
• Client • UPS	<ul> <li>Area Fast</li> </ul>	<ul> <li>DRS</li> </ul>
FedEx     GSO/GLS	Ontrac	• PAMS
PHYSIS Driver:		7,3,10
i. Start Time:	iii. Total M	ileage:
ii. End Time:		
6. Container Information: (Please put the # of co		
• Cooler • Styrofoam Cooler	· ·	<ul> <li>None</li> </ul>
Carboy(s)     Carboy Trash Can(		Other
8. Randomly Selected Samples Temperature (°C)  nspection Info  1. Initials Inspected By:	Used I/R Thermo	ometer # <u>1-2</u>
Sample Integrity Upon Receipt:		
1. COC(s) included and completely filled out		/ No
2. All sample containers arrived intact		/ No
3. All samples listed on COC(s) are present	( )	/ No
4. Information on containers consistent with infe	ormation on COC(s) Yes	/ NO
<ol><li>Correct containers and volume for all analyses</li></ol>		/ No
<ol><li>All samples received within method holding to</li></ol>	9	/ No
<ol><li>Correct preservation used for all analyses indi</li></ol>	\ \ /	/ No
8. Name of sampler included on COC(s)	Yes Yes	1 (No)
	Notes:	
	202112270011:7	

Project Iteration ID: 1407003-224

**Eurofins Eaton Analytical** 

Client Name: