

ACCREDITED

CERTIFICATE #'s 5990.01 & 5690.02

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: 989097 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		
Guam	21-008R	Ohio - 537.1	87786		
Hawaii	CA00006	Oregon *	4034		
ldaho	CA00006	Pennsylvania *	68-00565		
Illinois	200033	Puerto Rico	CA00006		
Indiana	C-CA-01	Rhode Island	LAO00326		
Iowa – Asbestos	413	South Carolina	87016		
Kansas *	E-10268	South Dakota	CA11320		
Kentucky	90107	Tennessee	TN02839		
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:

https://www.eurofinsus.com/Eaton

		nttps://	www.eu
Test(s)	Method(s)	Potable	Waste
rest(s)	wethod(s)	Water *	Water
Enterococci	Enterolert	Х	х
Escherichia coli	SM 9221 B.1	,	
(Enumeration)	SM 9221 F	x	
Fecal Coliform (P/A and	SM 9221 C		.,
Enumeration)	(MTF/EC), SM 9221 E (MTF/EC)	х	Х
Fecal Streptococci and			
Enterococci	SM 9230 B	x	Х
Heterotrophic Bacteria	SM 9215 B	Х	
Legionella	Legiolert®	х	
	Idexx		
Pseudomonas aeruginosa	Pseudalert	X	
Total Coliform (P/A and	SM 9221A. SM		
Enumeration)	9221B, SM 9221 C	X	Х
Total Coliform, Total			
Coliform with Chlorine	ON 0004 D	x	х
Present	SM 9221 B		
Total Coliform/E. coli (P/A and			
Enumeration, Idexx Colilert,	SM 9223	х	
Idexx Colilert 18, Colisure)			
Total Microcystins and	EPA 546	Х	
Nodularins Veset and Mold	CM 0C10	v	
Yeast and Mold	SM 9610	Х	
1,2,3-Trichloropropane	CA SRL 524M-		
(TCP) at 5 PPT	TCP	x	
1.4-Dioxane	EPA 522	х	
,	Modified EPA		
2,3,7,8-TCDD	1613 B	Х	
Acrylamide	+LCMS 2440)	Х	
Algal Toxins/Microcystin	+ LCMS 3570	X	
Alkalinity	SM 2320B	X	Х
Airdinity	EPA 350.1.	Α	Α
Ammonia	SM 4500-NH3		v
Ammonia			Х
A = b = = 4 = =	H		
Asbestos	EPA 100.2	Х	Х
Bicarbonate Alkalinity as	SM 2330 B	x	х
HCO3	OM 5040 D		.,
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,		х
	SM 5220D		
Chlorinated Acids	EPA 515.4	Х	
	Palin Test		
Chlorine Dioxide	Chlordio X Plus,	x	
Gillottilo Bloxido	SM 4500-CLO2	, î	
	D		
Chlorine, Free, Combined,	SM 4500-CLG		
Total Residual,	0 1000 0. 0	Х	
Chloramines			
Color	SM2120B	Х	
Conductivity	EPA 120.1,	x	х
	SM 2510B	^	^
Corrosivity (Langelier			
Index), Carbonate as CO3,	SM 2330 B	x	
Hydroxide as OH	5 2000 B		
Calculated			
Cyanide (Amenable)	SM 4500-CN	x	х
, , ,	G		
Cyanide (Free)	SM 4500CN F	Х	Х
Cyanide (Total)	EPA 335.4	X	Х
Cyanogen Chloride	+335 Mod	x	
(Screen)	(WC-24467)	^	
Diquat and Paraquat	EPA 549.2	Х	
DBP and HAA	SM 6251 B	Х	
Dissolved Organic Carbon	SM 5310 C	Х	
Dissolved Oxygen	SM 4500-O G		х
EDB/DCBP/TCP	EPA 504.1	Х	
EDB/DBCP and			
Disinfection Byproducts	EPA 551.1	Х	
EDTA and NTA	+ WC-2454	Х	
	EPA 548.1,		
Endothall	†(LCMS-2445)	x	
Fluoride	SM 4500F C	х	Х
Glyphosate	EPA 547	x	
Glyphosate and AMPA	+LCMS-3618	X	
Gross Alpha and Gross Beta	EPA 900.0	x	Х
Gross Alpha and Gross Bera			

<u>.com/Eaton</u>			
Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	×
Hardness	SM 2340 B	Х	Х
Hexavalent Chromium	EPA 218.6,	X	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)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	х	Х
Odor	SM2150B	X	
Organohalide Pesticides and PCB	EPA 505	х	
Ortho Phosphate	SM 4500P E	Х	
Oxyhalides Disinfection		^	
Byproducts	EPA 317.0	Х	
Perchlorate	EPA 331.0	Х	
Perchlorate (Low and High Levels)	EPA 314.0	х	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	х	
PPCP and EDC	+LCMS-2443	Х	
pH	EPA 150.1	х	х
рп	SM 4500-H+ B	^	^
Phenolics – Low Level	*WC 2493 (EPA		
	420.2 and EPA 420.4 MOD)	х	Х
Phenylurea Pesticides/Herbicides	+LCMS-2448	х	
Radium-226, Radium-228	GA Tech (Rad-	x	
Radon-222	2374) SM 7500RN		
Residue (Filterable)	SM 2540C	X X	Х
Residue (Non-Filterable)	SM 2540D	X	X
Residue (Total)	SM 2540B		X
Residue (Volatile)	EPA 160.4		X
Semi-Volatile Compounds	EPA 525.2	Х	^
	SM 4500-SiO2	^	
Silica	С	х	х
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	SM 5910B	v	
Constituents		Х	
VOCs	EPA 524.2	Х	
VOCs	* (GCMS 2412) by EPA 524.2	x	
. 555	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 #: 989097 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 23, 2022** at **1434**. 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						
202202231113	AIEA WELLS PUMP 2 (331-004-V	VL103)	02/22/2022 1058						
	@625BN_Physis C	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil						
	TPH 8015 Jet Fuel 5								
202202231114	TRAVEL BLANK::AIEA WELLS PL	JMP 2 (331-004-WL103)	02/22/2022 1058						
	(SUB)Gas Fraction Hydrocarbons								

#### **Test Description**

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

Reported: 04/14/2022

seurofins.

# CHAIN OF CUSTODY RECORD

Eaton Analytical EUROFINS E

(check for yes) O = Other - Please Identify ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,... list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample) 13-2-23-22 COMMENTS (check for yes) SAMPLER X (check for yes), OR 8015 109G ID ON BY 331-002 NON-COMPLIANCE SAMPLES X Temp Blank: February 22, 2022 SAMPLES REC'D DAY OF COLLECTION? SAMPLES CHECKED AGAINST COC BY; SAMPLES LOGGED IN BY REGULATION INVOLVED: DATE No Ice SL = Sludge SEE ATTACHED BOTTLE ORDER FOR ANALYSES METHOD OF SHIPMENT: Pick-Up / Walk-In / Redex // UPS / DHL / Area Fast / Top Line / Other: SO = Soil Wet Ice Honolulu Board of Water Supply Honolulu Board of Water Supply (check for yes) BW = Bottled Water SW = Storm Water COMPANY/TITLE COMPLIANCE SAMPLES - Requires state forms Thawed °C (Compliance: 4 ± 2 °C) °C (Compliance: 4 ± 2 °C) Type of samples (circle one): SEAW = Sea Water ww = Waste Water Partially Erozen Red Hill × ATAO OJEIT Lew Bailey PRINT NAME Lew Bailey CFW = Chlor(am)inated Finished Water 1 day EUROFINS EATON ANALYTICAL USE ONLY: CONDITION OF BLUE ICE: Frozen Colton / No. California / Arizona 2 day SAMPLE TEMP RECEIVED AT: CFW FW = Other Finished Water · XIRTAM RED HILL 1 wk X 3 day LOGIN COMMENTS: HI0000331-004 SAMPLE GROUP PROJECT CODE: CLIENT LAB ID Monrovia STD RGW = Raw Ground Water \* MATRIX TYPES: RSW = Raw Surface Water TAT requested: rush by adv notice only SAMPLE ID 750 Royal Oaks Drive, Suite 100 Aica Wells Pump P2 BWS HONOLULU 800 566 LABS (800 566 5227) Monrovia, CA 91016-3629 TO BE COMPLETED BY SAMPLER COMPANY/AGENCY NAME: Phone: 626 386 1100 Fax: 626 386 1101 EEA CLIENT CODE RELINQUISHED BY: RELINQUISHED BY **HIME** RECEIVED BY: SAMPLE SAMPLED BY 12/22/22 **BTAQ** SAMPLE

RECEIVED BY:

1 OF 1

PAGE

	d with analysis or not.	ad N/A		hours)		(C) (Final = (C)		te Results:	nternational clients: mp IO Bottle   Nonel-66			$\vdash$	1434	TIME	
RECORD	determine whether to procee is / No	ozen Thawed		collection, within 8 l		.C) (Corr.Factor	action)	Expiration Date	(see below): ditional bottles) ds using 40 ml vials, Ir			DATE	2-52-5	DATE	
OF CUSTODY	SAMPLE TEMP RECEIVED:  Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.  SAMPLES REC'D DAY OF COLLECTION? Yes / No  SORT. Factor $\begin{array}{c} -0.7 \\ \hline \end{array}$ °C) (Final = $\begin{array}{c} 1 \\ \hline \end{array}$ °C)	Frozen Partially Frozen	Top Line / Outer.	e the same day as sample c	stlon)	(c) (Final w (c) 2 * (Observation* (c) (Final w (c) (c) 4 = (Observation* (c)	after 24 hrs of sample colle	pH strlp type: 0 - 14 oration Date:Results	Samples with Headspace (see below): don Internal COFC for additional bottli , 556, 536, Anatoxin, LCMS methods using 40 ml vii Samp ID Bottle # None/6 >6mm Test			COMPANY/TITLE	Eurofins Eaton Analytical	COMPANYITILE	Eurofins Eaton Analytical
INTERNAL CHAIN OF CUSTODY RECORD	0)	80	(FedEx, UPS / DHL / Area Fast / 10p Line / Outer.)  1)6)13259872	not frozen (can be ≥10°C if received on loe the same day as sample collection, within 8 hours)	If received after 2 hours of sample colle-	3 = (Observation* (O'faelor (Observation* (C) (Od.r.faelor (C) (Od.r.faelor (C) (C) (C) (Od.r.faelor (C) (C) (C) (Od.r.faelor (C) (C) (C) (Od.r.faelor (C)	be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	Number:Expln	A and Radon  No Samples with Headspace:  despace:  Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)  Exempt from headspace concerns: Methods 615.4, HAA(6251, 555, 5PME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 mivials, international clients:  Samp ID Bottle # None/c6 >6mm Test Samp ID Bottle # None/c6 >6mm Test Samp ID Bottle # None/c6 >6mm Test Samp ID Bottle # Management Test Samp ID Bottle # None/c6 >6mm Test Samp ID Bottle # Management Test Samp ID Bottle # Mana		ace (i.e. potential sampling errors):	PRINT NAME	mue Breed	PRINT NAME	
ege eurofins	Est Folder Number: $WSU(MX)$ IR Gun ID = $U0$ (Observation= $3.7$	TYPE OF ICE: Real Synthetic No	METHOD OF SHIPMENT: Pick-Up / Walk-In / Fedex/ UPS / DHL / Area Fast / 10p Lin Compliance Acceptance Criteria:	2) Microbiology, Distribution: <10°C, n	3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants	4 Dioxin (1613 or 2,3,7,8 TCDD): must b	5) pH Check, Manufacturer:	YOA and Radon  YOA and Radon  Headspace:  Exempt from headspace concerns: Methods  Exempt from headspace concerns: Methods Sama ID Bottle # None/<6 > Sem Test Sam		Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	SIGNATURE	RECEIVED BY:	SIGNATURE	SAMPLES CHECKED AGAINST COG BY:

. eurofins

Note: Sampler Please return this paper with your samples

Created Date & Time: 1/10/2022 12:06:27AM

## 

Created By: - [AutoGenerated] Deliver By: 02/09/2022 STG: Bottle Orders

Ice Type: G Pre Registered

Description: AIEA WELLS PUMPS 1&2 (260) - 1 Send Report to

Red-Hill Expanded List (Albuquerque+)

Client ID: HONOLULU

Project Code: RED-HILL Bottle Orders

Group Name: PO#/JOB#:

C20525101 exp 05312023

Honolulu Board of Water Supply

Ship Sample Kits to

630 South Beretania Street

Honolulu, HI 96843

Chemistry Lab

Attn: Ron Fenstemacher Phone: 808-748-5841

Fax: 808-550-5572

Honolulu Board of Water Supply Public Service Bldg." Roam 308 630 South Beretania Street Attn: Erwin Kawata Phone: 808-748-5091 Honolulu, HI 96843 Fax: 808-550-5018

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

Attn: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018

Total 9

Bottle Qty - Type [preservative information]

6 - 1L amber glass [ 1 ml Thio 8% ]

TPH 8015 Diesel and Motor Oil\_C, TPH 8015 Jet Fuel 5\_C, TPH

8015 Jet Fuel 8\_C

Sample Tests

**50** #

8015 Gas C

**UN DOT#** 

က

2 - 40ml amber glass vial [ 1 drop Thio (8%) + H20 ]

3 - 40ml amber glass vial [1 drop Thio (8%)]

Sum Bottles: 11

### Sum Tests: 3 Comments

@504MOD TB C. 8015 Gas\_C TB

AIEA-WELLS PUMPS 182 (260) (331, 203, TP400)

Four 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND Six 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES. SAMPLER

Travel Blanks - TBA/MTBE, VOASDVVA - Prepare TBs in the VOA LAB.

Label Cooler on TOP and right below both Handles with Site description of contents ( use extra Contaienr Labels) SHIPPING:

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

Prenared Bv

Ķ.

Date Shinned

Status

Code



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

1 800 566 LABS (1 800 566 5227)

#### **Laboratory Comments**

Report: 989097 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 TPH Gas, Diesel, Motor Oil and Jet Fuels are submitted by Emax in Torrance CA Results for 625 BNA are submitted by Physis Environmental Laboratories, Inc.

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: 989097 Project: RED-HILL

Group: Red-Hill Expanded List

(Albuquerque+)

Samples Received on: 02/23/2022 1434

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
--------------------------------------------	-----------





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

1 800 566 LABS (1 800 566 5227)

Report: 989097 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: 02/23/2022 1434

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
AIEA W	ELLS PUMP	2 (331-004	-WL103) (202202	231113)		Sam	pled on 02/22	8	
		SW 8015B	- (SUB)Gas Frac	rbons					
02/24/22	02/24/22 22:59			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
02/24/22	02/25/22 19:45			(SW 8015B)	TPH Diesel	ND	mg/L	0.025	1
02/24/22	02/25/22 19:45			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.05	1
		EPA 8015 -	Jet Fuel 5 C8-C	18					
02/24/22	02/25/22 19:45			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.05	1
		EPA 8015 -	Jet Fuel 8 C8-C	:18					
	02/25/22 19:45			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.05	1
		EPA 625 - 0	625 Base Neutra	l Extractable	in ug/L				
02/24/22	03/17/22 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	Disalicylidenepropanediamine	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
02/24/22	03/17/22 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1
TRAVEL	BLANK::AI	EA WELLS	PUMP 2 (331-00	)4-WL103) (20	<u>)2202231114)</u>	Sam	pled on 02/22	/2022 105	8
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	ırbons				
02/24/22	02/24/22 23:35		•	(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 # 989097 Job # 1000014

Physis Project ID: 1407003-223

Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 2/24/2022. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

Organics
Polynuclear Aromatic Hydrocarbons by EPA 625.1
Disalicylidenepropanediamine by EPA 625.1
Dibenzo [a,l] Pyrene w/ PAHs by EPA 625.1
Base/Neutral Extractable Compounds by EPA 625.1
Acid Extractable Compounds w/ PAHs by EPA 625.1
6-tert-Butyl-2,4-dimethylphenol by EPA 625.1
2,6-Di-tert-butylphenol by EPA 625.1
2,6-Di-tert-butyl-4-methylphenol by EPA 625.1
p-tert-Butylphenol 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 # 989097 Job # 1000014 PHYSIS Project ID: 1407003-223 Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
95436	202202231113 A	AIEA WELLS PUMP 2 (331-004-WL	103) 2/22/2022	10:58	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



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

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

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

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



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#### **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



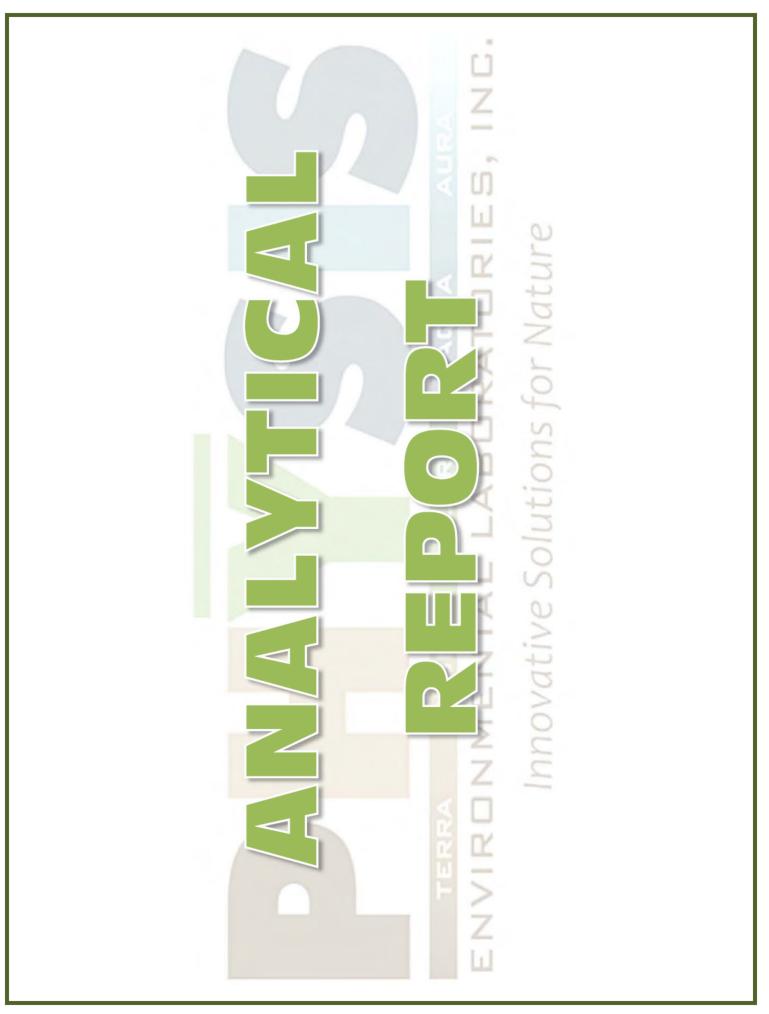
#### **CASE NARRATIVE**

#### **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.



ar - 1 of 4

Project: Folder # 989097 Job # 1000014 Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

TERRA FAUNA FLORA AGUA AURA ENVIRONMENTAL LABORATORIES, ING.

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	Date Analyzed	24-Feb-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22
	Date Processed	Received:	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22
	QA CODE Batch ID	22-Feb-22 10:58	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086	0-35086
spunc	Fraction	Sampled:	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
mp	R		0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1
le Co	MDL	L	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.05
ctab	DF	olewate	-	-	~	-	-	-	-	-	-	-	~	-	~	-	-	-	-	-	~	-
Acid Extractable Compounds	RESULT	Matrix: Samplewater	ND	ND	QN	QN	ND	QN	ND	ND	ND	ND	ND	ND	ND	ND	ND	QN	ND	ND	ND	N
Aci	Units	LLS PUMP 2	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	hg/L	hg/L	hg/L
	Method	20220231113 AIEA WELLS PUMP 2	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	10l EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	ol EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1	EPA 625.1
	ANALYTE	Sample ID: 95436-R1	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2,6-Di-tert-butyl-4-methylphenol	2,6-Di-tert-butylphenol	2-Chlorophenol	2-Methyl-4,6-dinitrophenol	2-Methylphenol	2-Nitrophenol	3+4-Methylphenol	4-Chloro-3-methylphenol	4-Nitrophenol	6-tert-butyl-2,4-dimethylphenol	Benzoic Acid	Benzyl Alcohol	Pentachlorophenol	Phenol	p-tert-Butylphenol

info@physislabs.com

TERRA FAUNA FLORA ABUA AURA ENVIRONMENTAL LABORATORIES, INC. Innovative Solutions for Nature	AGUA AURA IRATORIES, INC. for Nature						PHYSIS Pra Client: Eu Project: F	PHYSIS Project ID: 1407003-223 Client: Eurofins Eaton Analytical Project: Folder # 989097 Job #1000014	1000014	
	_	Base/Ne	Base/Neutral Extractable Compounds	ktrac	table	e Co	mpour	spu		
ANALYTE	Method	Units	RESULT	DF	MDL	R	Fraction	QA CODE Batch ID	Date Processed	Date Analyzed
Sample ID: 95436-R1	202202231113 AIEA WELLS PUMP 2		Matrix: Samplewater	ewater			Sampled:	22-Feb-22 10:58	Received:	24-Feb-22
2-Chloronaphthalene	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
2-Nitroaniline	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
3-Nitroaniline	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
4-Bromophenylphenyl ether	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
4-Chloroaniline	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
4-Chlorophenylphenyl ether	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
4-Nitroaniline	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Aniline	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Benzidine	EPA 625.1	hg/L	QN	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Bis(2-Chloroethoxy) methane	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Bis(2-Chloroethyl) ether	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Bis(2-Chloroisopropyl) ether	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Dibenzofuran	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Disalicylidenepropanediamine	e EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Hexachloroethane	EPA 625.1	hg/L	QN	_	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
Nitrobenzene	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
N-Nitrosodi-n-propylamine	EPA 625.1	hg/L	ND	_	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22
N-Nitrosodiphenylamine	EPA 625.1	hg/L	ND	-	0.05	0.1	Total	0-35086	24-Feb-22	17-Mar-22



PHYSIS Project ID: 1407003-223

Client: Eurofins Eaton Analytical

Project: Folder # 989097 Job # 1000014

		Polynuc	clear Aromatic Hydrocarbons	oma	tic H	ydroc	arbo	ns		
ANALYTE	Method	Units	RESULT	PF	MDL	RL F	Fraction	QA CODE Batch ID	Date Processed	Date Analyzed
Sample ID: 95436-R1 202202231	202202231113 AIEA WELLS PUMP 2		Matrix: Samplewater	ewater			Sampled:	22-Feb-22 10:58	Received:	24-Feb-22
(d10-Acenaphthene)	EPA 625.1	% Recovery	89	1			Total	0-35086	24-Feb-22	17-Mar-22
(d10-Phenanthrene)	EPA 625.1	% Recovery	96	-			Total	0-35086	24-Feb-22	17-Mar-22
(d12-Chrysene)	EPA 625.1	% Recovery	87	-			Total	0-35086	24-Feb-22	17-Mar-22
(d12-Perylene)	EPA 625.1	% Recovery	82	-			Total	0-35086	24-Feb-22	17-Mar-22
(d8-Naphthalene)	EPA 625.1	% Recovery	26	-			Total	0-35086	24-Feb-22	17-Mar-22
1-Methylnaphthalene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
1-Methylphenanthrene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
2,3,5-Trimethylnaphthalene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
2,6-Dimethylnaphthalene	EPA 625.1	hg/L	ND	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
2-Methylnaphthalene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Acenaphthene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Acenaphthylene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Anthracene	EPA 625.1	hg/L	ND	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Benz[a]anthracene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Benzo[a]pyrene	EPA 625.1	hg/L	ND	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Benzo[b]fluoranthene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Benzo[e]pyrene	EPA 625.1	hg/L	ND	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Benzo[g,h,i]perylene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Benzo[k]fluoranthene	EPA 625.1	hg/L	ND	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Biphenyl	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Chrysene	EPA 625.1	hg/L	ND	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Dibenz[a,h]anthracene	EPA 625.1	hg/L	ND	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Dibenzo[a,l]pyrene	EPA 625.1	hg/L	ND	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Dibenzothiophene	EPA 625.1	hg/L	Q	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
1904 E. Wright Circle, Anaheim CA 92806		main: (714) 602-5320	fax: (714) 602-5321	5321	d·www	www.physislabs.com		info@physislabs.com <i>C</i>	CA ELAP #2769	ar-3 of 4

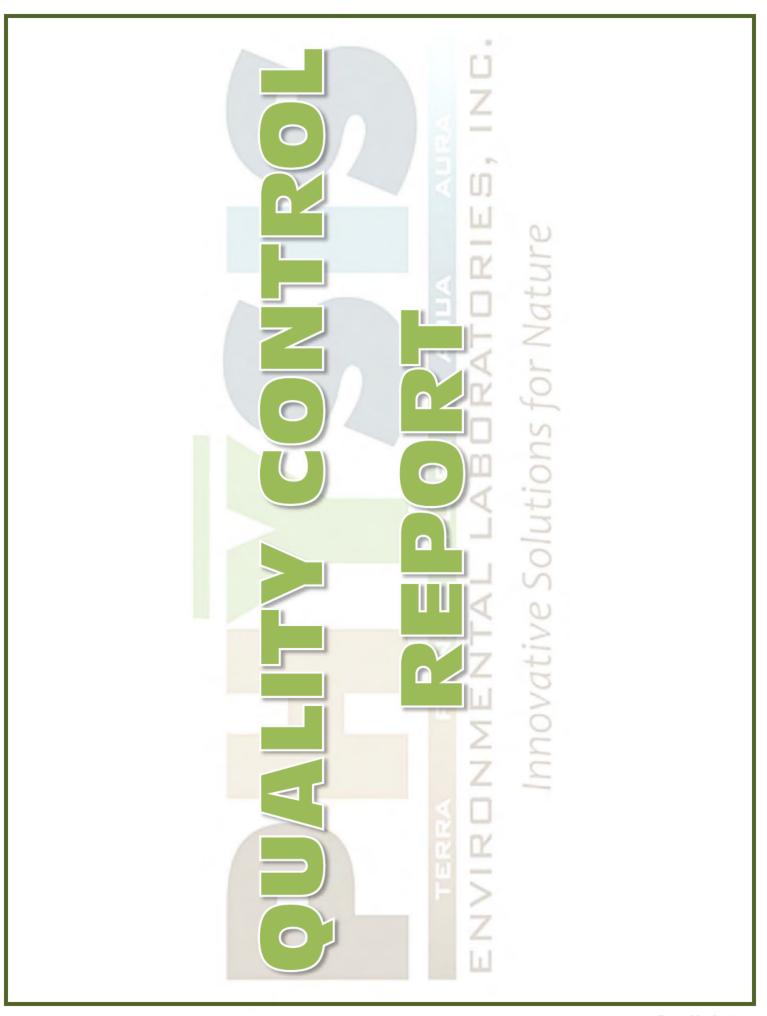
info@physislabs.com



Project: Folder # 989097 Job # 1000014

PHYSIS Project ID: 1407003-223 Client: Eurofins Eaton Analytical

		Polynu	Polynuclear Aromatic Hydrocarbons	ome	atic F	lydro	carbo	ns		
ANALYTE	Method	Units	RESULT	DF	MDL	귐	Fraction	QA CODE Batch ID Date Processed Date Analyzed	Date Processed	Date Analyzed
Fluoranthene	EPA 625.1	hg/L	Q	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Fluorene	EPA 625.1	hg/L	QN	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Indeno[1,2,3-cd]pyrene	EPA 625.1	hg/L	Q	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Naphthalene	EPA 625.1	hg/L	Q	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Perylene	EPA 625.1	hg/L	Q	_	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Phenanthrene	EPA 625.1	hg/L	QN	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22
Pyrene	EPA 625.1	µg/L	N	-	0.001	0.005	Total	0-35086	24-Feb-22	17-Mar-22



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Project: Folder # 989097 Job # 1000014

Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

QA CODEC																							
			Analyzed: 16-Mar-22																				
PRECISION	LIMITS	Received:	Analyzed:																				
PR	%	1																					
ACY	<b>AITS</b>		2																				
ACCUR	LIN		24-Feb-2																				
	%	ampled:	Prepared																				
SOURCE	RESUL																						
SPIKE	LEVEL	ankMatri	5086																				
ITS		latrix: Bla	atch ID: 0-3	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	hg/L	hg/L	hg/L
		N	B	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1
ا ا				0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.05
		3lank																					
		edural E	1 625.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
		۱QC Proc	thod: EPA	ND	Q	Q	ND	Q N	ND	Q	ND	Q	N	Q	ND	Q	N	Q N	Q	Q	Q	Q N	Q
ACTION		ď,	Me	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
芷		15435-B1							ylphe			lor				<u>-</u>		lphen					
		ple ID: ç		ophenol	ophenol	henol	lou	henol	yl-4-meth	ylphenol	0	Jinitrophe	0		enol	sthylpheno		4-dimethy		-	louer		loue
ALYTE		Sam		5-Trichlor	6-Trichlon	-Dichloropi	-Dinitrophe	-Dichloropi	-Di-tert-but	Di-tert-but	hlorophen	lethyl-4,6-c	ethylphen	itrophenol	-Methylph	hloro-3-me	itrophenol	rt-butyl-2,	zoic Acid	zyl Alcoho	itachloropi	lone	p-tert-Butylphenol
CONTROL DE LA FILLE DE LA FILL	UNITS SPIKE SOURCE ACCURACY	FRACTION RESULT DF MDL RL UNITS SPIKE SOURCE ACCURACY PREG LEVEL RESULT % LIMITS %	FRACTION RESULT DF MDL RL UNITS SPIKE SOURCE ACCURACY PREG LEVEL RESULT % LIMITS % nple ID: 95435-B1 QAQC Procedural Blank Matrix: BlankMatrix Sampled: Re	FRACTION RESULT DF MDL RL UNITS SPIKE SOURCE ACCURACY PREG LEVEL RESULT % LIMITS %  nple ID: 95435-B1 QAQC Procedural Blank Matrix: BlankMatrix Sampled: Rethod: EPA 625.1  Method: EPA 625.1  Batch ID: 0-35086 Prepared: 24-Feb-22	FRACTION RESULT DF MDL RL UNITS SPIKE SOURCE ACCURACY PREC  LEVEL RESULT % LIMITS %  LEVEL RESULT % LIMITS %  Method: EPA 625.1  Method: EPA 625.1	FRACTION         RESULT         DF         MDL         RL         UNITS         SPIKE         SOURCE         ACCURACY         PREG           LEVEL RESULT         %         LIMITS         %           95435-B1         QAQC Procedural Blank         Matrix: BlankMatrix         Sampled:         Rc           Method: EPA 625-1         Batch ID: 0-35086         Prepared: 24-Feb-22         Rc           Total         ND         1         0.05         0.1         μg/L           Total         ND         1         0.05         0.1         μg/L	FRACTION   RESULT   DF MDL   RL   UNITS   SPIKE   SOURCE   ACCURACY   PREC	FRACTION   RESULT   DF MDL   RL   UNITS   SPIKE   SOURCE   ACCURACY   PREC	FRACTION   RESULT   DF MDL   RL   UNITS   SPIKE   SOURCE   ACCURACY   PREC	FRACTION   RESULT   DF   MDL   RL   ONITS   SPIKE   SOUNCE   ACCURACY   PREC	FRACTION         RESULT         DF         MDL         RL         UNITS         SPIRE         SOUNCE         ACCURACY         PREC           5-B1         QAQC Procedural Blank         Matrix: BlankMatrix         Sampled:         R           Acthod: EPA 625.1         Batch ID: 0-35086         Prepared: 24-Feb-22         R           Total         ND         1         0.05         0.1         µg/L           Total         ND         1         µg/L         ND         ND	FRACTION         RESULT         PRESULT         SPINE         SOUNCE         ACCURACY         PRESULT           95435-B1         AcqC Procedural Blank         Matrix: BlankMatrix         Sampled:         R           Fotal         ND         1         0.05         0.1         µg/L           Total         ND         1         0.05         0.1         µg/L           Total         ND         1         0.05         0.1         µg/L           Hylphe         Total         ND         1         0.05         0.1         µg/L           I Total         ND         1         0.05         0.1         µg/L         Image: Imag	FRACTION         RESULT         DF         MADL         RL         ONITS         SPIKE         SOUNCE         ACCURACY         PRESULT PACK         ACCURACY         PRESULT PACK         PRESULT PACK	FRACTION   RESULT   DF   MDL   RL   ONITS   SPIKE   SOURCE   ACCURACY   PREC	FRACTION   RESULT   DF   MDL   RL   MDL	FRACTION   RESULT   DF   MDL   RL   ONITS   SPIKE   SOUNCE   ACCURACY   PREC   ACC	FRACTION   RESULT   DF MDL   RL   DNITS   SPIKE SOURCE   ACCURACY   PRECINCAL   RESULT   RE	FRACTION   RESULT   DF   MDL   RL   ONITS   SPINKE   SOUNCE   ACCURACY   PREC   PREC   ACCURACY   PR	FRACTION   RESULT   PF MDL   RL	Fraction   Result   DF MDL   RL   ONITS   SPINE SOURCE   ACCURACY   PRECINCT   RL   COURCE   ACCURACY   PRECINCT   RL   COURCE   ACCURACY   PRECINCT   RL   COURCE   ACCURACY   Accuracy	FRACTION   FESULT   DF MDL   RL   ONITS   SPIKE SOUNCE   ACCURACY   PRESIDENT   RL   COUNCE   ACCURACY   PRESIDENT   RL   COUNCE   RL   RL   RL   RL   RL   RL   RL   R	FRACTION   RESULT   DF MOL   NL   Matrix: BlankMatrix   Source   ACCINACY   PRESULT   Matrix: BlankMatrix   Sampled:   R   Matrix: BlankMatrix   R   Matrix: BlankMatrix   R   Matrix: BlankMatrix   Matrix: BlankMatrix   R   Matrix: BlankMatrix   Matrix: Blank	Fraction   Fraction

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1904 E. Wright Circle, Anaheim CA 92806

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PHYSIS Project ID: 1407003-223

Client: Eurofins Eaton Analytical

Project: Folder # 989097 Job # 1000014

Acid	Acid Extractable Compounds	table Co	ompc	punc	S			0	UAL	ITY CC	NTR	QUALITY CONTROL REPORT	)RT
ANALYTE	FRACTION	RESULT	DF N	MDL	占	UNITS	SPIKE	SOURCE	A	ACCURACY		PRECISION	QA CODEC
							LEVEL	RESULT	%	LIMITS		% LIMITS	
Sample ID: 95435-BS1		QAQC Procedural Blank	al Blank			Matrix: BlankMatrix	lankMatr		Sampled:			Received:	
	Met	Method: EPA 625.1				Batch ID: 0-35086	35086	Pre	Prepared: 24-Feb-22	-Feb-22		Analyzed: 16-Mar-22	16-Mar-22
2,4,5-Trichlorophenol	Total	0.652	-	0.05	0.1	hg/L	-	0	65	57 - 116%	PASS		
2,4,6-Trichlorophenol	Total	0.656	-	0.05	0.1	hg/L	-	0	99	56 - 118%	PASS		
2,4-Dichlorophenol	Total	0.564	-	0.05	0.1	hg/L	-	0	26	51 - 117%	PASS		
2,4-Dinitrophenol	Total	1.05	-	0.1	0.2	hg/L	-	0	105	0 - 152%	PASS		
2,6-Dichlorophenol	Total	0.228	-	0.05	0.1	hg/L	0.5	0	46	30 - 130%	PASS		
2,6-Di-tert-butyl-4-methylphe	Total	0.746	-	0.05	0.1	hg/L	-	0	75	50 - 150%	PASS		
2,6-Di-tert-butylphenol	Total	0.857	-	0.05	0.1	hg/L	-	0	86	50 - 150%	PASS		
2-Chlorophenol	Total	0.463	-	0.05	0.1	hg/L	-	0	46	41 - 110%	PASS		
2-Methyl-4,6-dinitrophenol	Total	1.36	-	0.1	0.2	hg/L	-	0	136	0 - 141%	PASS		
2-Methylphenol	Total	0.471	-	0.1	0.2	hg/L	-	0	47	40 - 117%	PASS		
2-Nitrophenol	Total	0.635	-	0.1	0.2	hg/L	-	0	63	40 - 117%	PASS		
3+4-Methylphenol	Total	0.42	-	0.1	0.2	hg/L	-	0	42	0 - 130%	PASS		
4-Chloro-3-methylphenol	Total	0.557	-	0.1	0.2	hg/L	-	0	26	51 - 128%	PASS		
4-Nitrophenol	Total	0.737	-	0.1	0.2	hg/L	-	0	74	10 - 164%	PASS		
6-tert-butyl-2,4-dimethylphen	υ Total	0.763	-	0.05	0.1	hg/L	-	0	92	50 - 150%	PASS		
Benzoic Acid	Total	0.65	-	0.1	0.2	hg/L	-	0	65	2 - 145%	PASS		
Benzyl Alcohol	Total	0.485	-	0.1	0.2	hg/L	-	0	49	43 - 148%	PASS		
Pentachlorophenol	Total	0.768	-	0.05	0.1	hg/L	-	0	77	36 - 111%	PASS		
Phenol	Total	0.364	-	0.1	0.2	hg/L	-	0	36	29 - 114%	PASS		
p-tert-Butylphenol	Total	0.535	-	0.05	0.1	hg/L	-	0	24	50 - 150%	PASS		

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Project: Folder # 989097 Job # 1000014

Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

Acid	Acid Extractable Compou	able Co	ompo	spuno	S			O	\UAL	QUALITY CONTROL REPORT	NTR	OL	REPO	RT
ANALYTE	FRACTION	RESULT	DF A	MDL	귍	UNITS	SPIKE	SOURCE	× ×	ACCURACY LIMITS		PREC %	PRECISION	QA CODEC
Sample ID: 95435-BS2		QAQC Procedural Blank	al Blank			Matrix: B	Matrix: BlankMatrix		Sampled:			Re	Received:	
	Metho	Method: EPA 625.1				Batch ID: 0-35086	98055-0	Pr	Prepared: 24-Feb-22	4-Feb-22			Analyzed: 17-Mar-22	7-Mar-22
2,4,5-Trichlorophenol	Total	0.629	-	0.05	0.1	hg/L	-	0	63	57 - 116%	PASS	က	30 PASS	
2,4,6-Trichlorophenol	Total	0.623	-	0.05	0.1	hg/L	-	0	62	56 - 118%	PASS	9	30 PASS	
2,4-Dichlorophenol	Total	0.539	-	0.05	0.1	hg/L	-	0	54	51 - 117%	PASS	4	30 PASS	<b></b>
2,4-Dinitrophenol	Total	0.978	-	0.1	0.2	hg/L	-	0	86	0 - 152%	PASS	7	30 PASS	
2,6-Dichlorophenol	Total	0.217	-	0.05	0.1	hg/L	0.5	0	43	30 - 130%	PASS	7	30 PASS	
2,6-Di-tert-butyl-4-methylphe	Total	0.736	-	0.05	0.1	hg/L	-	0	74	50 - 150%	PASS	-	30 PASS	
2,6-Di-tert-butylphenol	Total	0.849	-	0.05	0.1	hg/L	-	0	82	50 - 150%	PASS	-	30 PASS	<b></b>
2-Chlorophenol	Total	0.439	-	0.05	0.1	hg/L	-	0	4	41 - 110%	PASS	4	30 PASS	
2-Methyl-4,6-dinitrophenol	Total	1.35	-	0.1	0.2	hg/L	-	0	135	0 - 141%	PASS	-	30 PASS	
2-Methylphenol	Total	0.447	-	0.1	0.2	hg/L	-	0	45	40 - 117%	PASS	4	30 PASS	
2-Nitrophenol	Total	0.595	-	0.1	0.2	hg/L	-	0	09	40 - 117%	PASS	9	30 PASS	
3+4-Methylphenol	Total	0.394	-	0.1	0.2	hg/L	-	0	39	0 - 130%	PASS	7	30 PASS	
4-Chloro-3-methylphenol	Total	0.533	-	0.1	0.2	hg/L	-	0	53	51 - 128%	PASS	9	30 PASS	
4-Nitrophenol	Total	0.716	-	0.1	0.2	hg/L	-	0	72	10 - 164%	PASS	က	30 PASS	
6-tert-butyl-2, 4-dimethylphen	Total	0.752	-	0.05	0.1	hg/L	-	0	75	50 - 150%	PASS	-	30 PASS	
Benzoic Acid	Total	0.616	-	0.1	0.2	hg/L	-	0	62	2 - 145%	PASS	2	30 PASS	
Benzyl Alcohol	Total	0.46	-	0.1	0.2	hg/L	-	0	46	43 - 148%	PASS	4	30 PASS	
Pentachlorophenol	Total	0.765	-	0.05	0.1	hg/L	-	0	9/	36 - 111%	PASS	-	30 PASS	
Phenol	Total	0.34	-	0.1	0.2	hg/L	-	0	8	29 - 114%	PASS	9	30 PASS	
p-tert-Butylphenol	Total	0.524	-	0.05	0.1	hg/L	-	0	25	50 - 150%	PASS	4	30 PASS	

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Project: Folder # 989097 Job # 1000014

Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

1												
Base	/Neutr	Base/Neutral Extractable Compounds	ctab	le Co	mp	spunc		5	JALI	YCONI	QUALITY CONTROL REPORT	KI
ANALYTE	FRACTION	N RESULT	님	MDL	몺	UNITS	SPIKE SOURCE	OURCE	ACC	ACCURACY	PRECISION	QA CODEC
							LEVEL	RESULT	%	LIMITS	% LIMITS	
Sample ID: 95435-B1		QAQC Procedural Blank	al Blank			Matrix: B	Matrix: BlankMatrix	Sampled:	led:		Received:	
	We	Method: EPA 625.1				Batch ID: 0-35086	35086	Prep	Prepared: 24-Feb-22	sb-22	Analyzed: 16-Mar-22	16-Mar-22
2-Chloronaphthalene	Total	N	-	0.05	0.1	µg/L						
2-Nitroaniline	Total	Q	-	0.05	0.1	µg/L						
3-Nitroaniline	Total	ND	-	0.05	0.1	µg/L						
4-Bromophenylphenyl ether	Total	ND	-	0.05	0.1	hg/L						
4-Chloroaniline	Total	N	-	0.05	0.1	µg/L						
4-Chlorophenylphenyl ether	Total	N	-	0.05	0.1	µg/L						
4-Nitroaniline	Total	ND	-	0.05	0.1	µg/L						
Aniline	Total	Q	-	0.05	0.1	µg/L						
Benzidine	Total	N	-	0.05	0.1	hg/L						
Bis(2-Chloroethoxy) methane	Total	Q	-	0.05	0.1	µg/L						
Bis(2-Chloroethyl) ether	Total	N	-	0.05	0.1	hg/L						
Bis(2-Chloroisopropyl) ether	Total	ND	-	0.05	0.1	hg/L						
Dibenzofuran	Total	Q	-	0.05	0.1	µg/L						
Disalicylidenepropanediamin	Total	ND	-	0.05	0.1	µg/L						
Hexachloroethane	Total	N	-	0.05	0.1	µg/L						
Nitrobenzene	Total	Q	-	0.05	0.1	hg/L						
N-Nitrosodi-n-propylamine	Total	N	-	0.05	0.1	µg/L						
N-Nitrosodiphenylamine	Total	Q	-	0.05	0.1	hg/L						

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Project: Folder # 989097 Job # 1000014 Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

	3T	QA CODEC			·Mar-22																		
1000014	QUALITY CONTROL REPORT	PRE	% LIMITS	Received:	Analyzed: 16-Mar-22																		
# gor //	NTR					PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Project: Folder# 989097 Job#1000014	ITY CO	ACCURACY	LIMITS		4-Feb-22	53 - 130%	69 - 114%	23 - 137%	61 - 132%	50 - 150%	63 - 130%	10 - 159%	50 - 150%	0 - 125%	66 - 122%	43 - 127%	49 - 128%	50 - 150%	50 - 150%	27 - 130%	54 - 111%	61 - 152%	49 - 142%
ect: ro	UAI		%	Sampled:	Prepared: 24-Feb-22	29	69	63	63	53	8	06	9/	74	73	84	28	25	88	88	28	63	90
lo L	0		RESULT		Pr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		SPIKE	LEVEL	ankMatri	98058	-	-	-	-	-	0.5	-	0.5	-	-	-	-	0.5	0.5	-	-	-	-
	le Compounds	UNITS		Matrix: BlankMatrix	Batch ID: 0-35086	µg/L	hg/L	hg/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
	dmc	몺				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	0.1
	able Co	MDL		ınk		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	0.05
	acta	드		ıral Bla	٠.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.:	Extr	RESULT		QAQC Procedural Blank	Method: EPA 625.1	0.59	0.687	0.628	0.628	0.533	0.422	0.903	0.381	0.737	0.725	0.481	0.58	0.406	0.443	0.884	0.579	0.633	0.596
ATORIES, INC Nature	Base/Neutral Extractabl	FRACTION			Methoc	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
ENVIRONMENTAL LABORATORIES, INC. Innovative Solutions for Nature	Base/	ANALYTE		Sample ID: 95435-BS1		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	Disalicylidenepropanediamin	Hexachloroethane	Nitrobenzene	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine

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TERRA FAUNA FLORA AQUA AURA ENVIRONMENTAL LABORATORIES, INC. Innovative Solutions for Nature

Project: Folder # 989097 Job # 1000014 Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

Base	Base/Neutral Extractable Compounds	tral	Extra	ctabl	e Col	mpc	spund		O	NAL	QUALITY CONTROL REPORT	ONTR	OL F	REPO	RT
ANALYTE	FRACTION		RESULT	DF MDL		占	UNITS	SPIKE	SOURCE	A	ACCURACY		PRECISION	SION	QA CODEC
								LEVEL	RESULT	%	LIMITS		<b>1</b> %	LIMITS	
Sample ID: 95435-BS2	5-BS2	QAQC P	QAQC Procedural Blank	l Blank			Matrix: BlankMatrix	ankMatri		Sampled:			Rec	Received:	
		Method:	Method: EPA 625.1				Batch ID: 0-35086	35086	Pre	Prepared: 24-Feb-22	-Feb-22		Ä	Analyzed: 17-Mar-22	-Mar-22
2-Chloronaphthalene	Total		0.572	-	0.05	0.1	µg/L	-	0	22	53 - 130%	PASS	က	30 PASS	
2-Nitroaniline	Total		0.768	-	0.05	0.1	µg/L	-	0	77	69 - 114%	PASS	Έ	30 PASS	
3-Nitroaniline	Total		0.684	-	0.05	0.1	µg/L	-	0	89	23 - 137%	PASS	œ	30 PASS	
4-Bromophenylphenyl ether	Total		0.605	-	0.05	0.1	µg/L	-	0	61	61 - 132%	PASS	ß	30 PASS	
4-Chloroaniline	Total		0.513	-	0.05	0.1	µg/L	-	0	51	50 - 150%	PASS	4	30 PASS	
4-Chlorophenylphenyl ether	Total		0.407	-	0.05	0.1	µg/L	0.5	0	81	63 - 130%	PASS	4	30 PASS	
4-Nitroaniline	Total		1.11	-	0.05	0.1	µg/L	-	0	111	10 - 159%	PASS	21	30 PASS	
Aniline	Total		0.381	-	0.05	0.1	µg/L	0.5	0	92	50 - 150%	PASS	0	30 PASS	
Benzidine	Total		0.764	-	0.05	0.1	µg/L	-	0	92	0 - 125%	PASS	က	30 PASS	
Bis(2-Chloroethoxy) methane	e Total		0.703	-	0.05	0.1	µg/L	-	0	20	66 - 122%	PASS	က	30 PASS	
Bis(2-Chloroethyl) ether	Total		0.481	-	0.05	0.1	µg/L	-	0	48	43 - 127%	PASS	0	30 PASS	
Bis(2-Chloroisopropyl) ether	Total		0.555	-	0.05	0.1	µg/L	-	0	26	49 - 128%	PASS	4	30 PASS	
Dibenzofuran	Total		0.389	-	0.05	0.1	µg/L	0.5	0	78	50 - 150%	PASS	4	30 PASS	
Disalicylidenepropanediamin	n Total		0.437	-	0.05	0.1	µg/L	0.5	0	87	50 - 150%	PASS	7	30 PASS	
Hexachloroethane	Total		0.856	-	0.05	0.1	µg/L	-	0	98	27 - 130%	PASS	7	30 PASS	
Nitrobenzene	Total		0.55	-	0.05	0.1	µg/L	-	0	22	54 - 111%	PASS	ς,	30 PASS	
N-Nitrosodi-n-propylamine	Total		0.684	-	0.05	0.1	hg/L	-	0	89	61 - 152%	PASS	œ	30 PASS	
N-Nitrosodiphenylamine	Total		0.584	-	0.05	0.1	hg/L	-	0	28	49 - 142%	PASS	က	30 PASS	



PHYSIS Project ID: 1407003-223

Client: Eurofins Eaton Analytical

Project: Folder # 989097 Job # 1000014

And LYTE         FRACTION         FRESULT         A. MITS         SPINE         SPONER         A. CLINATS         A. LINITS         A. LINITS<	Polyn	uclear	Polynuclear Aromatic Hydrocarbons	atic	Hydro	cark	Suoc		o	UAL	ITY CO	NTR	QUALITY CONTROL REPORT	ORT
Part   Part	ANALYTE	FRACTION	RESULT						SOURCE	Ä	CURACY		PRECISION	QA CODEC
By 19435-Bit Mathematic Blank         Matrix: BlankMatrix         Sampled: 34-feb-23.         Amatrix: Blank Matrix         Amatrix         Amatrix: Blank Matrix         Amatrix         Amatr									RESULT		LIMITS			
b)         Total         74         10         34 bb-23           b)         Total         74         1         45 cb-113%         PASS           b)         Total         74         1         74         65 cb-113%         PASS           b)         Total         34         1         3         Recovery         100         76         65 cb-113%         PASS           nee         Total         ND         1         22         1         22         14-119%         PASS           nee         Total         ND         1         0.001         0.005         1901         3         44-119%         PASS           nee         Total         ND         1         0.001         0.005         1901         3         44-119%         PASS           nee         Total         ND         0.001         0.005         1901         3         44-119%         PASS           nee         Total         ND         0.001         0.005         1901         3         44-119%         PASS           nee         Total         ND         0.001         0.005         1901         3         44-119%         ASS           nee <th>Sample ID: 95435-I</th> <th></th> <th>QC Procedur</th> <th>al Blan</th> <th>¥</th> <th></th> <th>Matrix: Bla</th> <th>nkMatrix</th> <th></th> <th>pled:</th> <th></th> <th></th> <th>Received:</th> <th></th>	Sample ID: 95435-I		QC Procedur	al Blan	¥		Matrix: Bla	nkMatrix		pled:			Received:	
(1)         Total         74         1         % Recovery         100         74         65 -113%           (1)         Total         34         1         % Recovery         100         34         80 -111%           (1)         76         1         7         % Recovery         100         76         60 -139%           (1)         22         1         7         % Recovery         100         92         36 -161%           (1)         52         1         2         % Recovery         100         92         36 -161%           (1)         52         1         3         % Recovery         100         92         36 -161%           (1)         10         1         0.00         190         190         44 - 119%           (1)         1         0.00         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190         190		Met	hod: EPA 625.1				Batch ID: 0-35	980	Pr€	spared: 24	-Feb-22		Analyzed:	16-Mar-22
1	(d10-Acenaphthene)	Total	74	-			% Recovery	100		74	65 - 113%	PASS		
Total         76         1         % Recovery         100         76         60-139%           Total         92         1         % Recovery         100         92         36-161%           nee         Total         ND         1         0.001         0.005         94/L         44-119%           nee         Total         ND         1         0.001         0.005 </td <td>(d10-Phenanthrene)</td> <td>Total</td> <td>8</td> <td>-</td> <td></td> <td></td> <td>% Recovery</td> <td>100</td> <td></td> <td>84</td> <td></td> <td>PASS</td> <td></td> <td></td>	(d10-Phenanthrene)	Total	8	-			% Recovery	100		84		PASS		
Total         92         1         % Recovery         100         92         36-161%           nee         Total         52         1         % Recovery         100         92         36-161%           nee         Total         ND         1         0.001         0.005         19/L         44-119%           nee         Total         ND         1         0.001 <td>(d12-Chrysene)</td> <td>Total</td> <td>9/</td> <td>-</td> <td></td> <td></td> <td>% Recovery</td> <td>100</td> <td></td> <td>92</td> <td></td> <td>PASS</td> <td></td> <td></td>	(d12-Chrysene)	Total	9/	-			% Recovery	100		92		PASS		
ree         Total         52         1         % Recovery         100         52         44-119%           ene         Total         ND         1         0.001         0.005         µg/L         2         44-119%           with alene         Total         ND         1         0.001         0.005         µg/L         2         44-119%           nee         Total         ND         1         0.001         0.005         µg/L         2         44-119%           nee         Total         ND         1         0.001         0.005         µg/L         2         2         44-119%           nee         Total         ND         1         0.001         0.005         µg/L         2         44-119%           nee         Total         ND         1         0.001         0.005         µg/L         2         44-119%           ne         Total         ND         1         0.001         0.005         µg/L         2         44-119%           ne         Total         ND         1         0.001         0.005         µg/L         2         1         1         1         1         1         1         1         1<	(d12-Perylene)	Total	92	-			% Recovery	100		95		PASS		
ne         Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           hithalene         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ne         Total	(d8-Naphthalene)	Total	25	-			% Recovery	100		25	44 - 119%	PASS		
ene         Total         ND         1         0.001         0.005           hthalene         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           Total         ND         1	1-Methylnaphthalene	Total	Q	-	0.001	0.005	hg/L							
hthalene         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ene         Total	1-Methylphenanthrene	Total	Q	-	0.001	0.005	hg/L							
ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005	2,3,5-Trimethylnaphthalene	Total	Q	-	0.001	0.005	hg/L							
ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005	2,6-Dimethylnaphthalene	Total	Q	-	0.001	0.005	hg/L							
Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005	2-Methylnaphthalene	Total	Q	-	0.001	0.005	hg/L							
Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005	Acenaphthene	Total	Q	-	0.001	0.005	hg/L							
Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           I Total         ND         1         0.001         0.005	Acenaphthylene	Total	Q	-	0.001	0.005	hg/L							
Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005	Anthracene	Total	ND	-	0.001	0.005	hg/L							
Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005	Benz[a]anthracene	Total	Q	-	0.001	0.005	hg/L							
ne         Total         ND         1         0.001         0.005           re         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005	Benzo[a]pyrene	Total	Q	-	0.001	0.005	hg/L							
Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005	Benzo[b]fluoranthene	Total	Q	-	0.001	0.005	hg/L							
ne         Total         ND         1         0.001         0.005           ne         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005           ene         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005	Benzo[e]pyrene	Total	Q	-	0.001	0.005	hg/L							
ne         Total         ND         1         0.001         0.005	Benzo[g,h,i]perylene	Total	Q	-	0.001	0.005	hg/L							
Total         ND         1         0.001         0.005           Form         Total         ND         1         0.001         0.005           Fine         Total         ND         1         0.001         0.005           Total         ND         1         0.001         0.005	Benzo[k]fluoranthene	Total	Q	-	0.001	0.005	hg/L							
Total ND 1 0.001 0.005 ene Total ND 1 0.001 0.005 Total ND 1 0.001 0.005	Biphenyl	Total	Q	-	0.001	0.005	hg/L							
ene Total ND 1 0.001 0.005 Total ND 1 0.001 0.005	Chrysene	Total	Q	-	0.001	0.005	hg/L							
Total ND 1 0.001 0.005	Dibenz[a,h]anthracene	Total	Q	-	0.001	0.005	hg/L							
	Dibenzo[a,I]pyrene	Total	Q	-	0.001	0.005	hg/L							

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CA ELAP #2769

info@physislabs.com

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fax: (714) 602-5321

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1904 E. Wright Circle, Anaheim CA 92806



Project: Folder # 989097 Job # 1000014

Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

	Polynuclear Aromatic Hydrocarbons	Aromati	ic H	/droc	arbo	SL		ō	UAI	ITY CON	QUALITY CONTROL REPORT	ORT
ANALYTE	FRACTION	FRACTION RESULT DF MDL	JF MI	)L RL	UNITS		KE S	SPIKE SOURCE	∢	ACCURACY	PRECISION QA CODEC	QA CODEC
						ΕĒ	Ē	LEVEL RESULT	%	LIMITS	% LIMITS	
Dibenzothiophene	Total	ND 1		0.001	0.005	µg/L						
Fluoranthene	Total	ND 1		0.001	0.005	hg/L						
Fluorene	Total	ND		0.001	0.005	hg/L						
Indeno[1,2,3-cd]pyrene	rene Total	ND 1		0.001	0.005	hg/L						
Naphthalene	Total	ND 1		0.001	0.005	hg/L						
Perylene	Total	ND 1		0.001	0.005	hg/L						
Phenanthrene	Total	ND 1		0.001	0.005	hg/L						
Pyrene	Total	ND 1		0.001	0.005	hg/L						



PHYSIS Project ID: 1407003-223

Client: Eurofins Eaton Analytical

Project: Folder # 989097 Job # 1000014

Pol	Polynuclear Aromatic Hydrocarbons	Aroma	atic H	ydro	carb	ons		•	<b>SUAL</b>	ITY C	ONTE	QUALITY CONTROL REPORT	)RT
ANALYTE	FRACTION	RESULT	DF MDL		RL U	UNITS	SPIKE	SOURCE	•	ACCURACY		PRECISION	QA CODEC
							LEVEL	RESULT	%	LIMITS		% LIMITS	
Sample ID: 9543	95435-BS1 QAQ	QAQC Procedural Blank	al Blank			Matrix: BlankMatrix	ankMatri		Sampled:			Received:	
	Metho	Method: EPA 625.1				Batch ID: 0-35086	35086	4	Prepared: 2	24-Feb-22		Analyzed: 16-Mar-22	16-Mar-22
(d10-Acenaphthene)	Total	73	-			% Recovery	100	0	73	65 - 113%	PASS		
(d10-Phenanthrene)	Total	82	-			% Recovery	100	0	82	80 - 111%	PASS		
(d12-Chrysene)	Total	8	-			% Recovery	100	0	81	60 - 139%	PASS		
(d12-Perylene)	Total	82	-			% Recovery	100	0	85	36 - 161%	PASS		
(d8-Naphthalene)	Total	61	-			% Recovery	100	0	61	44 - 119%	PASS		
1-Methylnaphthalene	Total	0.303	-	0.001	0.005	hg/L	0.5	0	61	49 - 117%	PASS		
1-Methylphenanthrene	Total	0.454	-	0.001	0.005	µg/L	0.5	0	91	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	0.541	-	0.001	0.005	hg/L	0.5	0	108	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	0.406	-	0.001	0.005	hg/L	0.5	0	81	54 - 117%	PASS		
2-Methylnaphthalene	Total	0.317	-	0.001	0.005	hg/L	0.5	0	63	47 - 130%	PASS		
Acenaphthene	Total	0.332	-	0.001	0.005	hg/L	0.5	0	99	53 - 131%	PASS		
Acenaphthylene	Total	0.352	-	0.001	0.005	hg/L	0.5	0	20	43 - 140%	PASS		
Anthracene	Total	0.322	-	0.001	0.005	µg/L	0.5	0	64	58 - 135%	PASS		
Benz[a]anthracene	Total	0.448	-	0.001	0.005	µg/L	0.5	0	06	55 - 145%	PASS		
Benzo[a]pyrene	Total	0.438	-	0.001	0.005	µg/L	0.5	0	88	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	0.508	-	0.001	0.005	hg/L	0.5	0	102	46 - 165%	PASS		
Benzo[e]pyrene	Total	0.358	-	0.001	0.005	hg/L	0.5	0	72	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	0.411	-	0.001	0.005	hg/L	0.5	0	82	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	0.547	-	0.001	0.005	µg/L	0.5	0	109	56 - 145%	PASS		
Biphenyl	Total	0.306	-	0.001	0.005	hg/L	0.5	0	61	56 - 119%	PASS		
Chrysene	Total	0.529	-	0.001	0.005	µg/L	0.5	0	106	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	0.457	-	0.001	0.005	µg/L	0.5	0	91	55 - 150%	PASS		
Dibenzo[a,l]pyrene	Total	1.75	-	0.001	0.005	hg/L	7	0	88	50 - 150%	PASS		
1904 E. Wright Circle, Anaheim CA 92806	aheim CA 92806	main: (7	main: (714) 602-5320		fax: (714) 602-5321	12-5321	www.phy	www.physislabs.com	infe	info@physislabs.com	.com	CA ELAP #2769	qcb - 9 of 12



Project: Folder # 989097 Job # 1000014

Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

	Polynuclear Aromatic Hydrocarbons	r Aroma	atic	Hydro	cark	suoc		0	UAI	JTY CC	NTR	QUALITY CONTROL REPORT	ORT
ANALYTE	FRACTION	RESULT	占	MDL	됩	UNITS	SPIKE	SOURCE	4	ACCURACY		PRECISION	QA CODEC
							LEVEL	RESULT	%	LIMITS		% FIMITS	
Dibenzothiophene	Total	0.503	-	0.001	0.005	hg/L	0.5	0	101	75 - 113%	PASS		
Fluoranthene	Total	0.496	-	0.001	0.005	hg/L	0.5	0	66	60 - 146%	PASS		
Fluorene	Total	0.473	-	0.001	0.005	hg/L	0.5	0	92	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	rene Total	0.411	-	0.001	0.005	hg/L	0.5	0	85	50 - 151%	PASS		
Naphthalene	Total	0.298	-	0.001	0.005	hg/L	0.5	0	09	41 - 126%	PASS		
Perylene	Total	0.438	-	0.001	0.005	hg/L	0.5	0	88	48 - 141%	PASS		
Phenanthrene	Total	0.437	-	0.001	0.005	hg/L	0.5	0	87	67 - 127%	PASS		
Pyrene	Total	0.552	-	0.001	0.005	µg/L	0.5	0	110	54 - 156%	PASS		



Project: Folder # 989097 Job # 1000014 Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

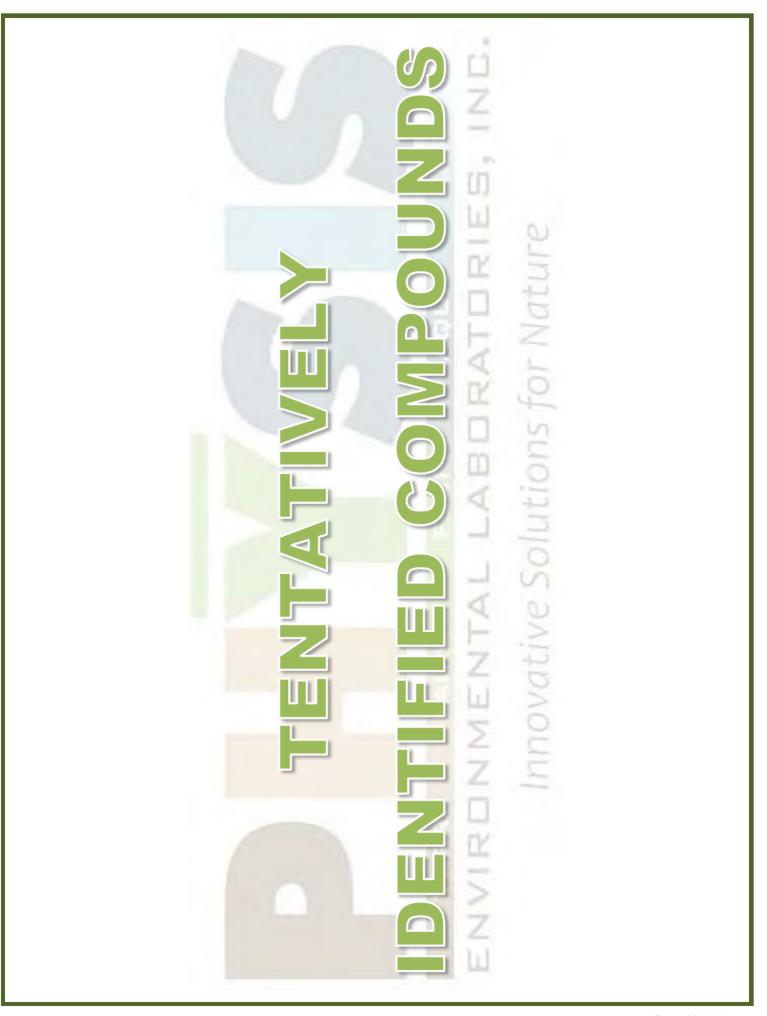
Poly	Polynuclear Aromatic Hydrocarbons	Aroma	atic H	ydro	carb	ons		0	\UAL	QUALITY CONTROL REPORT	ONT	30L	REP	ORT	
ANALYTE	FRACTION	RESULT	DF N	MDL	님	UNITS	SPIKE	SOURCE	4	ACCURACY		PRE	<b>PRECISION</b>	QA CODEC	ODEC
							LEVEL	RESULT	%	LIMITS		%	LIMITS	•	
Sample ID: 95435-BS2		QAQC Procedural Blank	al Blank			Matrix: BlankMatrix	ankMatri		Sampled:			В	Received:		
	Meth	Method: EPA 625.1				Batch ID: 0-35086	9805	Pr	Prepared: 24-Feb-22	4-Feb-22			Analyzed	Analyzed: 17-Mar-22	
(d10-Acenaphthene)	Total	99	-			% Recovery	100	0	99	65 - 113%	PASS	9	30 P/	PASS	
(d10-Phenanthrene)	Total	98	-			% Recovery	100	0	98	80 - 111%	PASS	2	30 P/	PASS	
(d12-Chrysene)	Total	69	-			% Recovery	100	0	69	60 - 139%	PASS	16	30 P/	PASS	
(d12-Perylene)	Total	95	-			% Recovery	100	0	95	36 - 161%	PASS	œ	30 P/	PASS	
(d8-Naphthalene)	Total	55	-			% Recovery	100	0	22	44 - 119%	PASS	10	30 P/	PASS	
1-Methylnaphthalene	Total	0.271	-	0.001	0.005	hg/L	0.5	0	54	49 - 117%	PASS	12	30 P/	PASS	
1-Methylphenanthrene	Total	0.611	-	0.001	0.005	hg/L	0.5	0	122	66 - 127%	PASS	29	30 P/	PASS	
2,3,5-Trimethylnaphthalene	Total	0.576	-	0.001	0.005	hg/L	0.5	0	115	57 - 120%	PASS	9	30 P/	PASS	
2,6-Dimethylnaphthalene	Total	0.372	-	0.001	0.005	hg/L	0.5	0	74	54 - 117%	PASS	თ	30 P/	PASS	
2-Methylnaphthalene	Total	0.32	-	0.001	0.005	hg/L	0.5	0	64	47 - 130%	PASS	7	30 P/	PASS	
Acenaphthene	Total	0.328	-	0.001	0.005	hg/L	0.5	0	99	53 - 131%	PASS	0	30 P/	PASS	
Acenaphthylene	Total	0.342	-	0.001	0.005	hg/L	0.5	0	89	43 - 140%	PASS	က	30 P/	PASS	
Anthracene	Total	0.333	-	0.001	0.005	hg/L	0.5	0	29	58 - 135%	PASS	2	30 P/	PASS	
Benz[a]anthracene	Total	0.512	-	0.001	0.005	hg/L	0.5	0	102	55 - 145%	PASS	12	30 P/	PASS	
Benzo[a]pyrene	Total	0.412	-	0.001	0.005	hg/L	0.5	0	82	51 - 143%	PASS	7	30 P/	PASS	
Benzo[b]fluoranthene	Total	0.456	-	0.001	0.005	hg/L	0.5	0	9	46 - 165%	PASS	Έ	30 P/	PASS	
Benzo[e]pyrene	Total	0.334	-	0.001	0.005	hg/L	0.5	0	29	42 - 152%	PASS	7	30 P/	PASS	
Benzo[g,h,i]perylene	Total	0.414	-	0.001	0.005	hg/L	0.5	0	83	63 - 133%	PASS	-	30 P/	PASS	
Benzo[k]fluoranthene	Total	0.497	-	0.001	0.005	hg/L	0.5	0	66	56 - 145%	PASS	10	30 P/	PASS	
Biphenyl	Total	0.343	-	0.001	0.005	hg/L	0.5	0	69	56 - 119%	PASS	12	30 P/	PASS	
Chrysene	Total	0.552	-	0.001	0.005	hg/L	0.5	0	110	56 - 141%	PASS	4	30 P/	PASS	
Dibenz[a,h]anthracene	Total	0.47	-	0.001	0.005	hg/L	0.5	0	<b>8</b>	55 - 150%	PASS	က	30 P/	PASS	
Dibenzo[a, I]pyrene	Total	1.65	-	0.001	0.005	hg/L	7	0	82	50 - 150%	PASS	7	30 P/	PASS	
1904 E. Wright Circle, Anaheim CA 92806	aheim CA 92806	main: (7	main: (714) 602-5320		fax: (714) 602-5321	02-5321	www.phy	www.physislabs.com	info	info@physislabs.com	com	CAEL	CA ELAP #2769	bb	qcb - 11 of 12



Project: Folder # 989097 Job # 1000014

Client: Eurofins Eaton Analytical PHYSIS Project ID: 1407003-223

_	Polynuclear Aromatic Hydrocarbons	Aroma	atic	Hydro	carb	ons		O	OAL	QUALITY CONTROL REPORT	ONTE	SOL	REPO	RT
ANALYTE	FRACTION	RESULT DF MDL	ᅜ		R. L	UNITS	SPIKE	SOURCE	A	ACCURACY		PRE	PRECISION	QA CODEC
							LEVEL	RESULT	%	LIMITS		%	LIMITS	
Dibenzothiophene	Total	0.472	-	0.001	0.005	µg/L	0.5	0	94	75 - 113% PASS	PASS	7	30 PASS	"
Fluoranthene	Total	0.45	-	0.001	0.005	µg/L	0.5	0	06	60 - 146% PASS	PASS	10	30 PASS	"
Fluorene	Total	0.46	-	0.001	0.005	µg/L	9.0	0	95	58 - 131% PASS	PASS	က	30 PASS	(0
Indeno[1,2,3-cd]pyrene	ene Total	0.45	-	0.001	0.005	µg/L	9.0	0	06	50 - 151% PASS	PASS	0	30 PASS	"
Naphthalene	Total	0.307	-	0.001	0.005	µg/L	9.0	0	61	41 - 126% PASS	PASS	7	30 PASS	(0
Perylene	Total	0.412	-	0.001	0.005	µg/L	0.5	0	85	48 - 141% PASS	PASS	7	30 PASS	"
Phenanthrene	Total	0.438	-	0.001	0.005	µg/L	0.5	0	88	67 - 127% PASS	PASS	-	30 PASS	"
Pyrene	Total	0.567	-	0.001	0.005	µg/L	0.5	0	113	54 - 156% PASS	PASS	က	30 PASS	"



**Sample ID: 95436** 

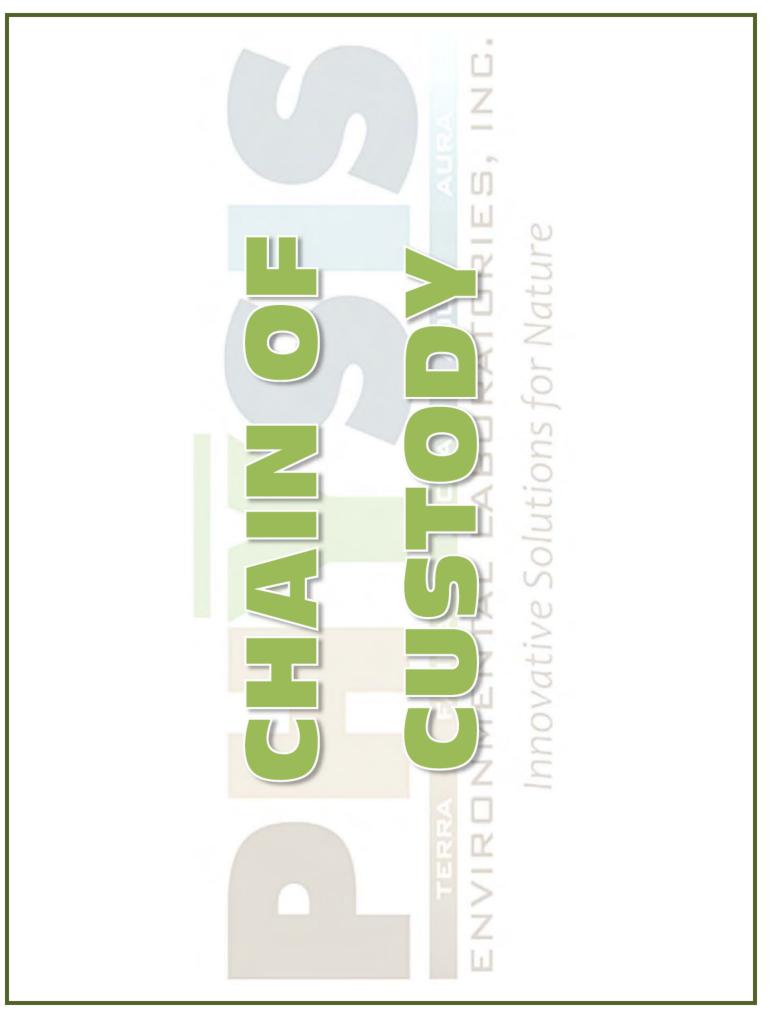
		Concentration			
RT	Area Pct	(ng/L)	Library/ID	Cas Number	Qual
33.1006	4.4660	1111	Anthracene-D10-	1719-06-8	95
25.5224	0.3096	77	Diethyl Phthalate	84-66-2	97

Concentration estimated using the response for Anthracene-d10

Sample ID: Lab Blank B1\_35086

		Concentration			
RT	Area Pct		Library/ID	Cas Number	Qual
33.0953	3.2674	1111	Anthracene-D10-	1517-22-2	95
89.2158	1.3996	476	DL-2,3-Butanediol	6982-25-8	99
89.2235	0.8282	282	1H-Tetrazol-5-amine	4418-61-5	81
11.1123	0.5627	191	Hexane, 2-nitro-	14255-44-8	86
12.8885	0.5255	179	Cyclohexane, (1,2-dimethylbutyl)-	61142-37-8	90
11.6244	0.4608	157	2,6-Octadiene, 2,4-dimethyl-	63843-03-8	81
10.8796	0.4555	155	2H-Pyran-2-methanol, tetrahydro-	100-72-1	81
12.0319	0.3917	133	Octane, 4,5-diethyl-	1636-41-5	94
11.6923	0.3470	118	1,5-Heptadien-4-one, 3,3,6-trimethyl-	546-49-6	84
25.5174	0.3115	106	Diethyl Phthalate	84-66-2	97

Concentration estimated using the response for Anthracene-d10



ST PWSID Static ID: Clip Code Sample Date & Time Matrix 02/22/22 1058 DW Sample Point ID: Facility ID: AIEA WELLS PUMP 2 (331-004-WL103) Client Sample ID for reference onl Sample Event: 20220231113 Sample type: Sample ID

625 Base Neutral Extractable in ug/L 625 Acid Extractable in ug/L **Analysis Requested** 625PAH in ug/L Prep Method EPA 625m **EPA 625 EPA 625** Wethod **EPA 625 EPA 625 EPA 625** 

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Time 14/1
Time

Date 274

Sample Control

Relinquished by:

Received by:

MOUNTAY NOT

Sample Control

Relinquished by:

Received by:

Page 40 of 111 pages

Page 3 of 3

Date Date

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



Project Iteration ID: 1407003-223

Client Name:

**Eurofins Eaton Analytical** 

Project Name:

Folder # 989097 Job # 1000014

Sample Receipt Summary	Bottle Laboratoria 2 of 2	89097 Job # 1000014
eceiving Info	Bottle Label Color: NA	
Initials Received By:		
2. Date Received: 2/24/22		
3. Time Received: /4//		
4. Client Name: Eurofine	,	
5. Courier Information: (Please circle)		
• Client • UPS	Area Fast	• DRS
FedEx     GSO/GLS	Ontrac	• PAMS
<ul> <li>PHYSIS Driver:</li> </ul>	Ontide	PAIVIS
i. Start Time:	iii. Total	Mileage:
ii. End Time:		ber of Pickups:
6. Container Information: (Please put the #		bei of Fickups.
• Cooler   • Styrofoam Co	ooler •Boxes	• None
Carboy(s)     Carboy Trash	Can(s) • Carboy Cap(s)	
7. What type of ice was used: (Please circle	any that apply)	
Wet Ice     Blue Ice		<ul> <li>None</li> </ul>
8. Randomly Selected Samples Temperature	e (°C): <u>4.6</u> Used I/R Ther	mometer # /-2
nspection Info		
1. Initials Inspected By:		
ample Integrity Upon Receipt:		
COC(s) included and completely filled out.	6	) , ,,,
All sample containers arrived intact	Nos	/ No / No
<ol><li>All samples listed on COC(s) are present</li></ol>	Ves	/ No
4. Information on containers consistent with	information on COC(s)	/ No
5. Correct containers and volume for all ana	lyses indicated	/ No
6. All samples received within method holding	ng time	No
7. Correct preservation used for all analyses	indicatedYes	,
8. Name of sampler included on COC(s)	Yes	/ (No)
	Notes:	
	reces.	



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

Date: 03-10-2022

EMAX Batch No.: 22B233

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 989097

Enclosed is the Laboratory report for samples received on 02/24/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202202231113	B233-01 02/22/22	WATER	TPH GASOLINE TPH
202202231114	B233-02 02/22/22	WATER	TPH GASOLINE

The results are summarized on the following pages.

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

Sincerelly yours.

Caspar J. Pang Laboratory Director

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

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

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

228233

Submittal Form

\*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbersl Report & Invoice must have the Folder# 989097 Job # 1000014

eurofins eurofins

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St.

Torrance, CA 90505

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.

Specified State Certification # and Exp Date for requested tests \* matrix Eurofins Eaton Analytical, LLC 755 Royal Oaks Drive, Bulte 100, Morrrovia, CA 91016 Reports: Jackie Contrerss Sub Contracting Administrator EMAIL TO: Eston-MonrovisSubContract@eurofinset.com myroices to: Eurofins Eaton Analytical, LLC PERCONS (626) 306-1166 FAX (626) 386-1122

Accounts Payable 2425 New Holland Pike, Lancaster, P.A. 17605

2-3 day rush

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

260686

03/02/2022

ST **PWSID** Static ID: Clip Code Sample Date & Time Matrix 02/22/22 1058 DW Sample Point ID: Facility ID: Client Sample ID for reference on! AIEA WELLS PUMP 2 (331-004-WL103) Sample Event: 20220231113 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
EPA 8015		Jet Fuel 8 C8-C18

	PWSID
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	Sample Date & Time Matrix Clip Code 02/22/22 1058 DW
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Static ID:

Sample Point ID:

Facility ID:

Sample Event:

Sample type:

(SUB)Gas Fraction Hydrocarbons **Analysis Requested Prep Method EPA 5030C** SW 8015B Method

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn. Jackie Contreras

Date **2/24/16** Time 13:13

Date 3

Sample Control

Relinquished by:

Received by.

12.50 Temp: 02.1°/1.6 (2) 3.0° (

REPORT ID: 22B233 Page 3 of 3

Time

Time

Date Date

Sample Control

Relinquished by:

Received by:

Page 43 of 111 pages

Page 2 of 35

REPORT ID: 22B233

Reference: Addendum SM02.11.1

Form: SM02F1

Page 3406351 pages

T	1'	Τ	Airbill / Track	ing Nimbon	ECN 27 B 133		
Type of De		-	All Dill / Track	nig ivumoci			
		-			Recipient Alan Ramus		
☐ EMAX Courier ☐ Client Deli	very				Date 02/24/22	Time 13:13	
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:							
			**************************************				
PACKAGING INSPECTION							
Container	<b>⊅</b> Cooler		□ Box	☐ Other			
Condition	☐ Custody Seal		☐ Intact	☐ Damaged			
Packaging Correction factor - 0.5	Bubble Pack	,	□ Styrofoam	□ Popcom ·	☐ Sufficient		
Temperatures 70000	Cooler 1 2.1 1.6 °C	<b>⊅</b> Coo	oler 2 °C	☐ Cooler 3°C	□ Cooler 4°C	Cooler 5°C	
(Cool, ≤6 °C but not frozen)	Cooler 6°C	□ Coo	oler 7°C_	Cooler 8°C	□ Cooler 9°C	Cooler 10°C	
Thermometer:	Bubble Pack Cooler 1 2.1 16°C Cooler 6 °C A - S/N 210191066	41/2	R-SN 210271396	(C-)S/N 21027 1399	D ~ S/N		
Comments: Temperature is ou	t of range. PM was informe	d IMM	EDIATELY.				
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DISCREPANCIES	T	1 -	I				
LabSampleID	LabSampleContainerID	Code		abel ID / Information	Corrective	Action	
	4-7	02/010		ot indicated on	<u> </u>		
			label				
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□ pH holding time requirement	t for water samples is 15 m	ins. W	ater samples for pH analy	sis are received beyond 15 r	ninutes from sampling time	- NO GWILL	
in pri notanig time requirement	tion water bumpies to to the		uvo. 042242220 202 p. 2 22027		many nom oumphing time.	• •	
NOTES/OBSERVATIONS:							
				7777			
LEGEND:					☐ Continue to next pag	76	
	ogament	Codo	Description-Sample Mana	agement		•	
Code Description-Sample Mana	9		Out of Holding Time	igement	Code Description-Sample Management  R1 Proceed as indicated in 10 COC  Label		
D1 Analysis is not indicated in			Bubble is >6mm		7)		
(D2) Analysis mismatch COC vs label					R2 Refer to attached instruction		
D3 Sample ID mismatch COC vs label			No trip blank in cooler		R3 Cancel the analysis		
D4 Sample ID is not indicated in			Preservation not indicated i		R4 Use vial with smallest bubble first		
D5 Container -[improper] [leak	***		Preservation mismatch CO		R5 Log-in with latest sampling date and time+1 min		
D6 Date/Time is not indicated i			Insufficient chemical prese	rvative	R6 Adjust pH as necessary		
(D7) (Date/) time mismatch COC			Insufficient Sample		R7 Filter and preserved as necessa	y ( Xilly W	
D8 Sample listed in COC is not		D20	No filtration info for dissol	ved analysis	R8_Infollula	vuery .	
D9 Sample received is not lister	d in COC	D21	No sample for moisture deterr	mination	R9		
(010) No initial/date on correction	ns in COO(label)	D22			R10		
D11 Container count mismatch (	COC vs received	D23			R11		
D12 Container size mismatch CC		D24			R12		
REVIEWS:	Jocelyne //	$A^{-1}$	· ·	(1. 4.)		10	
Sample Labeling	ZOIL KOLUNO 1 ( ZENE)	y Cu	SRF	Mula	PM	JUD	
	02/24/22	22	Date	- JAHIN	Date	2/28/22	
				1-7		<del>                                      </del>	

# **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: 22B233 Pages 44of 35a 1 pages

# LABORATORY REPORT FOR

# **EUROFINS EATON ANALYTICAL**

989097

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

SDG#: 22B233

REPORT ID: 22B233 Pages

Client : EUROFINS EATON ANALYTICAL

Project: 989097

SDG : 22B233

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 02/24/22 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. VG39B12B - 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. VG39B12L/VG39B12C 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 B231-01M/B231-01S. 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: 22B233

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

10	THE STATE OF THE S								ON SUS	770800 · OM 508
Client	: EUKUFINS EAION ANALTITCAL	ANALTICAL							.02	
Project	: 989097								Instrumen1	instrument ID : GCT039
                				## ## ## ## ## ## ##		### ### ### ### ### ### ### ### ### ##				
					WA	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	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				
MBLK1W		VG39B12B	-	NA	02/24/2212:40	02/24/2212:40	EB24005A	EB24004A	22VG39B12 N	22VG39B12 Method Blank
LCS1W		VG39B12L	_	N	02/24/2213:16	02/24/2213:16	EB24006A	EB24004A	22VG39B12 I	22VG39B12 Lab Control Sample (LCS)
LCD 1W		VG39B12C	_	AN	02/24/2213:53	02/24/2213:53	EB24007A	EB24004A	22VG39B12 I	22VG39B12 LCS Duplicate
202202311	113	B233-01	_	AN	02/24/2222:59	02/24/2222:59	EB24022A	EB24015A	22VG39B12 I	22VG39B12 Field Sample
202202231114	114	B233-02	-	NA	02/24/2223:35	02/24/2223:35	EB24023A	EB24015A	22VG39B12 I	22VG39B12 Field Sample

# **SAMPLE RESULTS**

REPORT ID: 22B233

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 10:58

Date Received: 02/24/22

Project : 989097
Batch No. : 22B233
Sample ID : 20220231113 Date Extracted: 02/24/22 22:59 Date Analyzed: 02/24/22 22:59

Dilution Factor: 1 Lab Samp ID: B233-01 Matrix: WATER Lab File ID: EB24022A

Ext Btch ID: 22VG39B12 % Moisture: NA Calib. Ref.: EB24015A Instrument ID: 39

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

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

SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY QC LIMIT

0.0312 0.0400 78 60 140 Bromofluorobenzene \_\_\_\_\_

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

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 10:58

Project : 989097 Date Received: 02/24/22
Batch No. : 22B233 Date Extracted: 02/24/22 23:35
Sample ID : 202202231114 Date Analyzed: 02/24/22 23:35

 Lab Samp ID: B233-02
 Dilution Factor: 1

 Lab File ID: EB24023A
 Matrix: WATER

 Ext Btch ID: 22VG39B12
 % Moisture: NA

 Calib. Ref.: EB24015A
 Instrument ID: 39

 RESULTS
 RL
 MDL

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

 GASOLINE
 ND
 0.020
 0.010

SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY QC LIMIT

Bromofluorobenzene 0.0315 0.0400 79 60-140

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume : 5ml

Prepared by : SCerva Analyzed by : SCerva

# **QC SUMMARIES**

REPORT ID: 22B233

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

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/24/22 12:40

Project : 989097 Date Received: 02/24/22 Batch No. : 228233 Date Extracted: 02/24/22 12:40

 Batch No. : 228233
 Date Extracted: 02/24/22 12:40

 Sample ID : MBLK1W
 Date Analyzed: 02/24/22 12:40

Lab Samp ID: VG39B12B Dilution Factor: 1
Lab File ID: EB24005A Matrix: WATER
Ext Btch ID: 22VG39B12 % Moisture: NA
Calib. Ref.: EB24004A Instrument ID: 39

 RESULTS
 RL
 MDL

 PARAMETERS
 (mg/L)
 (mg/L)

 GASOLINE
 ND
 0.020
 0.010

SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY QC LIMIT

Bromofluorobenzene 0.0308 0.0400 77 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

REPORT ID: 22B233

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO.

SAMPLE ID

: 989097 : 22B233

METHOD

: 5030B/8015B

1

MATRIX : WATER DILUTION FACTOR: 1

: MBLK1W LAB SAMPLE ID : VG39B12B LAB FILE ID : EB24005A DATE PREPARED : 02/24/22 12:40

DATE ANALYZED : 02/24/22 12:40 : 22VG39B12 CALIBRATION REF: EB24004A

% MOISTURE:NA

LCS1W LCD1W VG39B12L VG39B12C EB24006A EB24007A 02/24/22 13:16 02/24/22 13:53

02/24/22 13:16 02/24/22 13:53 22VG39B12 22VG39B12 EB24004A EB24004A

ACCESSION:

PREP BATCH

QCLimit MaxRPD MBResult SpikeAmt LCSResult LCSRec SpikeAmt LCDResult LCDRec (%) (%) (%) (mg/L) (%) (%) PARAMETERS (mg/L) (mg/L) (mg/L) (mg/L) 30 60-130 ND 0.500 0.434 87 0.500 0.422 84 3 Gasoline 

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0397	99	0.0400	0.0400	100	70-130

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

# EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT PROJECT : EUROFINS EATON ANALYTICAL

BATCH NO.

: 989088

METHOD

: 22B231 : 5030B/8015B

MATRIX : WATER

% MOISTURE:NA

DILUTION FACTOR: 1

202202231101MS 202202231101MSD

LAB SAMPLE ID : B231-01

SAMPLE ID : 202202231101

B231-01M

B231-01S

LAB FILE ID : EB24017A

EB24018A 02/24/22 20:32

EB24019A 02/24/22 21:09

DATE PREPARED : 02/24/22 19:56 DATE ANALYZED : 02/24/22 19:56

02/24/22 20:32

02/24/22 21:09

PREP BATCH : 22VG39B12

22VG39B12

22VG39B12

CALIBRATION REF: EB24015A

EB24015A

EB24015A

ACCESSION:

PARAMETERS Gasoline	PSResult (mg/L)	SpikeAmt (mg/L)  0.500	MSResult (mg/L)  0.494	MSRec (%) 	SpikeAmt (mg/L)	MSDResult (mg/L) 0.500	MSDRec (%)  100	RPD (%) 1	QCLimit (%)  50-130	MaxRPD (%) 
=======================================		=======	========				======			======
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	0.0428	107		60-140	

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

# LABORATORY REPORT FOR

# **EUROFINS EATON ANALYTICAL**

989097

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22B233

Client: EUROFINS EATON ANALYTICAL

Project: 989097

SDG : 22B233

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

One (1) water sample was received on 02/24/22 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. DSB034WB - 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 DSB034WL. Refer to LCS summary form for details.

### Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22B231-01M/22B231-01S. 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: 989097

SDG : 22B233

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) water sample was received on 02/24/22 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. DSB034WB - 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 J5B034WL. Refer to LCS summary form for details.

# Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 22B231-01M/22B231-01S. 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: 989097

SDG : 22B233

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/24/22 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. DSB034WB - 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 J8B034WL. Refer to LCS summary form for details.

# Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22B231-01M/22B231-01S. Refer to Matrix QC summary form for details.

## Surrogate

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

### Sample Analysis

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

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

11 11 11 11 11 11				11		# # # # # # # # # # # # # # # # # # #				]] ]]
Client	: EUROFINS EATON ANALYTICAL	ANALYTICAL							SUG NO. : 228255	
Project	260686								instrument ID : D5	
		11 11 11 11 11 11 11 11 11								!!
					WATER	ER				
Client		Laboratory Dilution	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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1			-
MBLK1W		DSB034WB	_	NA	02/25/2216:05	02/24/2216:15	LB25009A	LB25003A	22DSB034W Method Blank	
LCS1W		DSB034WL	-	NA	02/25/2216:23	02/24/2216:15	LB25010A	LB25003A	22DSB034W Lab Control Sample (LCS)	(S)
20220231113	113	B233-01	<del></del>	NA	02/25/2219:45	02/24/2216:15	LB25021A	LB25003A	22DSB034W Field Sample	

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	ANALYTICAL							SDG NO.	: 228233
	260686 :								Instrumer	Instrument ID : D5
## 				11 11 11 11 11 11					# # # # # # # # # # # # # # # # # # #	
					WAT	WATER				
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	ı 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		11111111		1 1	1 1 1 1		1 1 1 1 1 1	: : : : : : : : : : : : : : : : : : : :		
MBLK1W		DSB034WB	_	AN	02/25/2216:05	02/24/2216:15	LB25009A	LB25004A	22DSB034W	22DSB034W Method Blank
LCS1W		J5B034WL	-	NA	02/25/2216:41	02/24/2216:15	LB25011A	LB25004A	22DSB034W	22DSB034W Lab Control Sample (LCS)
20220231113	13	B233-01	-	NA	02/25/2219:45	02/24/2216:15	LB25021A	LB25004A	22DSB034W	22DSB034W Field Sample

REPORT ID: 22B233

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Project : yayuy,	: EUKUFINS EALUN ANALTIICAL : 989097							SDG NO. : 22B233 Instrument ID : D5	3233
			## ## ## ## ## ## ## ## ## ## ## ## ##	          	WATER				
	Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	ı Prep.	
Sample ID	Sample ID Factor	Factor	Moist	DateTime	Datelime	Data FN	Data FN	Batch Notes	
1 1 2 4 4 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	: : : : : : : : : : : : : : : : : : : :	t			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	DSB034WB	-	NA	02/25/2216:05	02/24/2216:15	LB25009A	LB25005A	22DSB034W Method Blank	녿
LCS1W	J8B034WL	-	NA	02/25/2217:00	02/24/2216:15	LB25012A	LB25005A	22DSB034W Lab Control Sample (LCS)	l Sample (LC
21113	B233-01	•	NA	02/25/2219:45	02/24/2216:15	LB25021A	LB25005A	22DSB034W Field Sample	le e

FN - Filename % Moist - Percent Moisture

# **SAMPLE RESULTS**

REPORT ID: 22B233

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 10:58

Date Received: 02/24/22

Project : 989097
Batch No. : 22B233
Sample ID : 202202231113 Date Extracted: 02/24/22 16:15 Date Analyzed: 02/25/22 19:45

Lab Samp ID: 22B233-01 Dilution Factor: 1 Lab File ID: LB25021A Matrix: WATER Ext Btch ID: 22DSB034W % Moisture: NA Calib. Ref.: LB25003A Instrument ID: D5

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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	0.442	0.500	88	60-130
Hexacosane	0.147	0.125	118	60-130

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Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml Analyzed by : SDeeso Prepared by : JMuert

REPORT ID: 22B233 Pagea 2360 fb 551 pages

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 10:58

 Project
 : 989097
 Date Received: 02/24/22

 Batch No.
 : 22B233
 Date Extracted: 02/24/22 16:15

 Sample ID
 : 202202231113
 Date Analyzed: 02/25/22 19:45

Sample ID : 202202231113 Date Analyzed: 02/25/22 19:45
Lab Samp ID: 22B233-01 Dilution Factor: 1
Lab File ID: LB25021A Matrix: WATER

Ext Btch ID: 22DSB034W % Moisture: NA Calib. Ref.: LB25004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.442 0.147	0.500 0.125	88 118	60-130 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 : 1000ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

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Client : EUROFINS EATON ANALYTICAL Date Collected: 02/22/22 10:58

Project : 989097 Date Received: 02/24/22

Batch No. : 22B233 Date Extracted: 02/24/22 16:15 Sample ID : 202202231113 Date Analyzed: 02/25/22 19:45

Lab Samp ID: 22B233-01 Dilution Factor: 1
Lab File ID: LB25021A Matrix: WATER

Ext Btch ID: 22DSB034W % Moisture: NA Calib. Ref.: LB25005A 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	0.442	0.500	88	60-130

Hexacosane 0.147 0.125 118 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

# **QC SUMMARIES**

REPORT ID: 22B233

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/24/22 16:15

 Project
 : 989097
 Date Received: 02/24/22

 Batch No.
 : 22B233
 Date Extracted: 02/24/22 16:15

 Sample ID
 : MBLK1W
 Date Analyzed: 02/25/22 16:05

Lab Samp ID: DSB034WB Dilution Factor: 1
Lab File ID: LB25009A Matrix: WATER
Ext Btch ID: 22DSB034W % Moisture: NA
Calib. Ref.: LB25003A Instrument ID: D5

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PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel Motor Oil	ND ND	0.025 0.050	0.012 0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.402	0.500	80	60-130

Hexacosane 0.143 0.125 115 60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1000ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT PROJECT : EUROFINS EATON ANALYTICAL

BATCH NO. : 22B233 METHOD : 352OC/8015B

: 989097

MATRIX : WATER DILUTION FACTOR: 1

SAMPLE ID : MBLK1W

LCS1W

LAB SAMPLE ID : DSB034WB

DSB034WL

% MOISTURE:NA

LAB FILE ID : LB25009A LB25010A

DATE PREPARED : 02/24/22 16:15 02/24/22 16:15

DATE ANALYZED : 02/25/22 16:05 02/25/22 16:23

PREP BATCH : 22DSB034W 22DSB034W

CALIBRATION REF: LB25003A

LB25003A

ACCESSION:

	MBReεult	SpikeAmt	LCSResult	LCSRec	QCLimit
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	(%)	(%)
******					~~~~~~
Diesel	ND	2.50	2.37	95	50-130

SURROGATE PARAMETERS	SpikeAmt	LCSResult	LCSRec	QCLimit
	(mg/L)	(mg/L)	(%)	(%)
Bromobenzene	0.500	0.426	85	60-130
Hexacosane	0.125	0.145	116	60-130

MB: Method Blank sample LCS: Lab Control Sample

# EMAX QUALITY CONTROL DATA MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 989088
BATCH NO. : 22B231
METHOD : 3520C/80158

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

SAMPLE ID : 202202231101 202202231101MS 202202231101MSD LAB SAMPLE ID : 22B231-01 LAB FILE ID : LB25013A DATE PREPARED : 02/24/22 16:15 22B231-01S 22B231-01M LB25014A LB25015A 02/24/22 16:15 02/24/22 16:15 02/25/22 17:36 02/25/22 17:55 DATE ANALYZED : 02/25/22 17:18 PREP BATCH : 22DSB034W 22DSB034W 22DSB034W LB25003A CALIBRATION REF: LB25003A LB25003A

# ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.58	2.42	94	2.55	2.26	89	7	50-130	30
		<u> </u>	=======================================	======	========	:=======	:=======		=========	=======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.515 0.129	0.437 0.156	85 121	0.510 0.127	0.383 0.150	75 118		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: 02/24/22 16:15 Project : 989097 Date Received: 02/24/22

Lab Samp ID: DSB034WB Dilution Factor: 1
Lab File ID: LB25009A Matrix: WATER
Ext Btch ID: 22DSB034W % Moisture: NA
Calib. Ref.: LB25004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDŁ (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.402 0.143	0.500 0.125	80 115	60-130 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 : 1000ml Final Volume : 5ml

Prepared by : JMuert Analyzed by : SDeeso

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

: 989097 PROJECT BATCH NO. : 22B233 METHOD : 352OC/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1

CALIBRATION REF: LB25004A LB25004A

## ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.55	102	30-160
					========
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.460 0.146	92 117	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.

: 989088 : 22B231

METHOD

: 3520C/8015B

MATRIX : WATER DILUTION FACTOR: 1

0.132

% MOISTURE:NA

SAMPLE ID

: 202202231101

202202231101MS

202202231101MSD

LAB SAMPLE ID : 22B231-01 LAB FILE ID : LB25013A

22B231-01M

22B231-01S

DATE PREPARED : 02/24/22 16:15

LB25016A

LB25017A

DATE ANALYZED : 02/25/22 17:18

02/24/22 16:15 02/25/22 18:13

02/24/22 16:15 02/25/22 18:31 22DSB034W

PREP BATCH : 22DSB034W CALIBRATION REF: LB25004A

22DSB034W

LB25004A

LB25004A

0.150

114

60-130

ACCESSION:

Hexacosane

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCL imit (%)	MaxRPD (%)
JP5	ND	2.65	2.71	102	2.62	2.95	112	8	30-160	30
=======================================	========	========					e man mang samb many sinut bayah sang jang tang I balan makin bada bada bang bang tang tang			
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene		0.530	0.469	88	0.525	0.493	94		60-130	

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106

0.131

0.141

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

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/24/22 16:15

Lab Samp ID: DSB034WB
Lab File ID: LB25009A
Ext Btch ID: 22DSB034W
Calib. Ref.: LB25005A

Dilution Factor: 1
Matrix: WATER
% Moisture: NA
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	0.402 0.143	0.500 0.125	80 115	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

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 989097

METHOD

: 22B233 : 3520C/8015B

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MATRIX DILUTION FACTOR: 1

: WATER

% MOISTURE:NA

SAMPLE ID : MBLK1W

LAB SAMPLE ID : DSB034WB

LCS1W J8B034WL

DATE PREPARED : 02/24/22 16:15

LAB FILE ID : LB25009A

LB25012A 02/24/22 16:15 02/25/22 17:00

DATE ANALYZED : 02/25/22 16:05 PREP BATCH : 22DSB034W

22DSB034W

CALIBRATION REF: LB25005A

LB25005A

ACCESSION:

PARAMETERS	MBResult	SpikeAmt	LCSResult	LCSRec	QCLimit
	(mg/L)	(mg/L)	(mg/L)	(%)	(%)
JP8	ND	2.50	2.28	91	30-160

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SURROGATE PARAMETERS	SpikeAmt	LCSResult	LCSRec	QCLimit
	(mg/L)	(mg/L)	(%)	(%)
Bromobenzene	0.500	0.529	106	60-130
Hexacosane	0.125	0.147	118	60-130

MB: Method Blank sample LCS: Lab Control Sample

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

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO. : 22B231 METHOD : 3520C/8015B

: 989088

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MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202202231101

LAB SAMPLE ID : 22B231-01

202202231101MS 22B231-01M

202202231101MSD

LAB FILE ID : LB25013A DATE PREPARED : 02/24/22 16:15

LB25018A

22B231-01S LB25019A

DATE ANALYZED : 02/25/22 17:18 PREP BATCH : 22DSB034W

02/24/22 16:15 02/24/22 16:15

02/25/22 18:50 22DSB034W

02/25/22 19:08 22DSB034W

CALIBRATION REF: LB25005A

LB25005A

LB25005A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.65	2.33	88	2.60	2.68	103	14	30-160	30
	=======================================	========	=======================================		=========		=======	=======		
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.549 0.160	104 121	0.520 0.130	0.528 0.156	102 120		60-130 60-130	
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PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate



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

Date: 03-10-2022

EMAX Batch No.: 22B231

Attn: Jackie Contreras

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

Subject: Laboratory Report

Project: 989088

Enclosed is the Laboratory report for samples received on 02/24/22. The data reported relate only to samples listed below:

Sample ID	Control # Col Date	Matrix	Analysis
202202231101	B231-01 02/21/22	WATER	TPH GASOLINE TPH
202202231102	B231-02 02/21/22	WATER	TPH GASOLINE
202202231101MS	B231-01M 02/21/22	WATER	TPH GASOLINE TPH
202202231101MSD	B231-01S 02/21/22	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,

Caspar J. Pang Laboratory Director

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

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

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

Eaton Analytica

eurofins.

EMAX Laboratories, Inc.

Ship To:

3051 Fujita St.

Torrance, CA 90505

128231

Date: 2/24/2022

Submittal Form

\*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbersl* Report & Invoice must have the Folder# 989088 Job # 1000014

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.

Provide in each Report the Specified State Certification # and Exp Date for requested tests \* mailtic Eurofins Eaton Anslytical LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605 Reports: Jackie Contraras Sub-Contracting Administrator ENAL TO Esten-KonroviaSubContract@surofinset.com nvoices to: Eurofins Eaton Analytical, LLC Phone (626) 386-1165 Fax (625) 386-1122

SETTING THE HARA

2-3 day rush

Fax: 310-618-0818

Phone: 310-618-8889

Report Due:

Folder #:

989088

03/02/2022

ST PWSID Static ID Clip Code Sample Date & Time Matrix 02/21/22 0940 DW Sample Point ID: Facility ID: Client Sample ID for reference onl HALAWA SHAFT-331-241-TP401 Sample Event: Sample ID 202202231101 Sample type:

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
EPA 8015		Jet Filel 8 C8-C18

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Sample Date & Time Matrix 02/21/22 0940 DW	Sample Point ID:
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onl 31-241-TP <sub>2</sub>	ple Event: Facility ID:
for reference onl ALAWA SHAFT-331-241-TP2	imple Event; Facility ID:
ID for reference onl :HALAWA SHAFT-331-241-TP4	Sample Event: Facility ID:
ID for reference onl :HALAWA SHAFT-331-241-TP4	Sample Event: Facility ID:
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ID for reference onl :HALAWA SHAFT-331-241-TP4	ile type: Sample Event; Facility ID:
ID for reference onl :HALAWA SHAFT-331-241-TP4	nple type: Sample Event: Facility ID:
ID for reference onl :HALAWA SHAFT-331-241-TP4	ample type: Sample Event: Facility ID:

ILS

(SUB)Gas Fraction Hydrocarbons **Analysis Requested** Prep Method **EPA 5030C** SW 8015B Method

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn. Jackie Contreras

12:13 Octime

Date His

Sample Control

Relinquished by:

Received by;

Time

Date

Sample Control

Relinquished by;

Received by:

Page 78 of 111 pages

TEMP: 0 2.1°/

REPORT ID: 22B231 Time Page 1 of 3 Date

Page 2 of 35

Reference: Addendum SM02.11.1

Form: SM02F1

Type of De	elivery	T	Airbill / Track	ing Number	ECN 228231	
□ Fedex □ UPS □ GSO		<del> </del>	7thom? Hack	ing rumoer	Recipient Alan Rai	M(I)
□ EMAX Courier □ Client Deli		<del> </del>			Date 02/24/22	Time [3:[3
	***************************************	<u></u>			Date of C1160	Time 13.13
COC INSPECTION						
Client Name	Client PM/FC		☐ Sampler Name	Sampling Date/Time	Sample ID	Matrix
Address	<b>□</b> Tel # / Fax #		☐ Courier Signature	🗖 Analysis Required	☐ Preservative (if any)	TAT TAT
Safety Issues (if any)	☐ High concentrations exp	ected	☐ From Superfund Site	☐ Rad screening required		′
Note:						
PACKAGING INSPECTIO	DN .					
Container	Cooler		□ Box	□ Other		
Condition Correction	Custody Seal		☐ Intact	☐ Damaged		
Packaging factor - 0.5	Bubble Pack		☐ Styrofpam	□ Popcorn ·	☐ Sufficient	
Temperatures	Cooler 1 2.1/1.6 °C	d Co	oler 2 3.0/2.5 °C	□ Cooler 3°C	□ Cooler 4°C	□ Cooler 5 °C
(Cool, ≤6 °C but not frozen)	Cooler 6 °C	T Co	oler 7°C	Cooler 8°C	Cooler 9°C	□ Cooler 10 °C
Thermometer:	Cooler 6 °C A - S/N 210191066	Jul.	B-S/N 210271396	(C-)S/N 21027 1399	D - S/N	<u> </u>
Comments: Temperature is ou	t of range. PM was informe	7 ''4 d IMM	EDIATELY.			
Note:						
				W-11-1		
DISCREPANCIES	T		T			
LabSampleID	LabSampleContainerID	Code		abel ID / Information	Corrective	Action
<u> </u>	5-11	02	Jet Fuel & is not	indicated on label	18	
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			· · /		/	
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						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				- while	<b>,</b>	MS 2/28/22
☐ pH holding time requirement	for water samples is 15 mi	ns. W	ater samples for pH analy	sis are received beyond 15 n	ninutes from sampling time.	7 7
NOTES/OBSERVATIONS:						
NOTES/OBSERVATIONS:						
	<u>, , , , , , , , , , , , , , , , , , , </u>	· · · · · · · · · · · · · · · · · · ·	······································			
LEGEND:					☐ Continue to next pag	e.
Code Description- Sample Mana	agement	Code	Description-Sample Mana	gement	Code Description-Sample Mana	gement
Analysis is not indicated in		D13	Out of Holding Time		R1 Proceed as indicated in CO	□ Label
(D2) Analysis mismatch COC vs	label	D14	Bubble is >6mm		R2 Refer to attached instruction	
D3 Sample ID mismatch COC	vs label	D15	No trip blank in cooler		R3 Cancel the analysis	
D4 Sample ID is not indicated i	n	D16	Preservation not indicated i	n	R4 Use vial with smallest bubble f	irst
D5 Container -[improper] [leak	ing] [broken]	<b>D1</b> 7	Preservation mismatch CO	C vs label	R5 Log-in with latest sampling dat	e and time+1 min
D6 Date/Time is not indicated i	n	D18	Insufficient chemical presen	rvative	R6 Adjust pH as necessary	
D7 Date/Time mismatch COC	vs label	D19	Insufficient Sample		R7 Filter and preserved as necessar	y // " /~
D8 Sample listed in COC is not	received	D20	No filtration info for dissolv	ved analysis	R8 Dynnea	Ment
D9 Sample received is not listed	d in COC	D21	No sample for moisture determ	nination	R9	
D10 No initial/date on correction	ns in COC/label	D22			R10	
D11 Container count mismatch C	COC vs received	D23			R11	
D12 Container size mismatch CC		D24			R12	
	Tocelyne / /			1/0 -1		~ <i>l</i>
Sample Labeling			SRF	Ulylin	PM	11/5
	02/4/12	N	Date	Sylv	Date	2/18/22
	- '			<i>[</i>		1
	(					

## **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: 22B231 Pages

## LABORATORY REPORT FOR

## **EUROFINS EATON ANALYTICAL**

989088

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

SDG#: 22B231

Client : EUROFINS EATON ANALYTICAL

Project: 989088

SDG : 22B231

METHOD 5030B/8015B

TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 02/24/22 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. VG39B12B - 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. VG39B12L/VG39B12C 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 B231-01M/B231-01S. 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: 22B231

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL	ON ANALYTICAL							SDG NO.	: 228231
								Instrument	Instrument ID : GCT039
		                   	## ## ## ## ## ## ##						## ## ## ## ## ## ## ## ## ## ## ## ##
				WATER	ER				
Client	Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID		Moist	DateTime	DateTime	Data FN	Data FN	Betch No	Notes
1 1 1 5 5 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	VG39B12B	_	N	02/24/2212:40	02/24/2212:40	EB24005A	EB24004A	22VG39B12 Method Blank	thod Blank
LCS1W	VG39B12L	-	N	02/24/2213:16	02/24/2213:16	EB24006A	EB24004A	22VG39B12 La	22VG39B12 Lab Control Sample (LCS)
LCD1W	VG39B12C	_	NA	02/24/2213:53	02/24/2213:53	EB24007A	EB24004A	22VG39B12 LC	22VG39B12 LCS Duplicate
20220231101	B231-01	<b>-</b>	NA	02/24/2219:56	02/24/2219:56	EB24017A	EB24015A	22VG39B12 Field Sample	eld Sample
20220231101MS	B231-01M	-	NA	02/24/2220:32	02/24/2220:32	EB24018A	EB24015A	22VG39B12 Ma	22VG39B12 Matrix Spike Sample (MS)
20220231101MSD	B231-01S		NA	02/24/2221:09	02/24/2221:09	EB24019A	EB24015A	22VG39B12 MS	22VG39B12 MS Duplicate (MSD)
202202231102	B231-02	<b>-</b>	NA	02/24/2221:45	02/24/2221:45	EB24020A	EB24015A	22VG39B12 Field Sample	eld Sample

# **SAMPLE RESULTS**

Paggg880f66f1 pages

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

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/21/22 09:40

Project : 989088 Batch No. : 228231 Date Received: 02/24/22

Date Extracted: 02/24/22 19:56 Sample ID : 202202231101 Date Analyzed: 02/24/22 19:56

Lab Samp ID: B231-01 Dilution Factor: 1 Lab File ID: EB24017A Matrix: WATER Ext Btch ID: 22VG39B12 % Moisture: NA Calib. Ref.: EB24015A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0329 0.0400 82 60-140

Notes:

H-C Range C6-C10 Parameter Gasoline

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 5ml Final Volume: 5ml

Analyzed by : SCerva Prepared by : SCerva

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

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/21/22 09:40 Project : 989088 Date Received: 02/24/22

Batch No. : 22B231 Date Extracted: 02/24/22 21:45 Sample ID : 202202231102 Date Analyzed: 02/24/22 21:45

Lab Samp ID: B231-02 Dilution Factor: 1 Lab File ID: EB24020A Matrix: WATER Ext Btch ID: 22VG39B12 % Moisture: NA Calib. Ref.: EB24015A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0319 0.0400 80 60-140

Notes:

H-C Range Parameter C6-C10 Gasoline

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**

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/24/22 12:40 Project : 989088 Date Received: 02/24/22

Batch No. : 22B231 Date Extracted: 02/24/22 12:40 Sample ID : MBLK1W Date Analyzed: 02/24/22 12:40

Lab Samp ID: VG39B12B Dilution Factor: 1 Lab File ID: EB24005A Matrix: WATER Ext Btch ID: 22VG39B12 % Moisture: NA Calib. Ref.: EB24004A Instrument ID: 39

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

SURROGATE PARAMETERS RESULT SPK\_AMT %RECOVERY QC LIMIT Bromofluorobenzene 0.0308 0.0400 77 60-140

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 Prepared by : SCerva Analyzed by : SCerva

Pagead280661 pages REPORT ID: 22B231

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

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT BATCH NO.

METHOD

: 989088 : 22B231 : 5030B/8015B

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : MBLK1W

LCD1W VG39B12C

LAB SAMPLE ID : VG39B12B

LCS1W VG39B12L

LAB FILE ID : EB24005A

DATE PREPARED : 02/24/22 12:40 EB24006A 02/24/22 13:16

EB24007A 02/24/22 13:53

DATE ANALYZED : 02/24/22 12:40 PREP BATCH : 22VG39B12

02/24/22 13:16 02/24/22 13:53 22VG39B12

CALIBRATION REF: EB24004A

22VG39B12 EB24004A EB24004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikcAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.434	87	0.500	0.422	84	3	60-130	30
-				======	=======================================				========	*======

SURROGATE PARAMETER	SpikeAmt	LCSResult	LCSRec	SpikeAmt	LCDResult	LCDRec	QCLimit
	(mg/L)	(mg/L)	(%)	(mg/L)	(mg/L)	(%)	(%)
Bromofluorobenzene	0.0400	0.0397	99	0.0400	0.0400	100	70-130

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

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

CLIENT

: EUROFINS EATON ANALYTICAL

PROJECT

: 989088

BATCH NO. : 22B231 METHOD : 5030B/8015B

MATRIX DILUTION FACTOR: 1

: WATER

% MOISTURE:NA

SAMPLE ID : 202202231101

202202231101MS

202202231101MSD

LAB SAMPLE ID : B231-01

B231-01M

B231-01S

LAB FILE ID : EB24017A

DATE PREPARED : 02/24/22 19:56

EB24018A

EB24019A

02/24/22 20:32

02/24/22 21:09

DATE ANALYZED : 02/24/22 19:56 PREP BATCH : 22VG39B12

02/24/22 20:32

02/24/22 21:09

22VG39B12

22VG39B12

CALIBRATION REF: EB24015A

EB24015A

EB24015A

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	0.494	99	0.500	0.500	100	1	50-130	30
=======================================	=========	========		======	========	========	=======	=======		=======
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0410	103	0.0400	0.0428	107		60-140	

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

## LABORATORY REPORT FOR

## **EUROFINS EATON ANALYTICAL**

989088

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

SDG#: 22B231

Client: EUROFINS EATON ANALYTICAL

Project: 989088

SDG : 22B231

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

One(1) water sample was received on 02/24/22 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. DSB034WB - 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 DSB034WL. 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 22B231-01M/22B231-01S. 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: 989088

SDG : 22B231

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

One (1) water sample was received on 02/24/22 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. DSB034WB - 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 J5B034WL. 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 22B231-01M/22B231-01S. 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: 989088

SDG : 22B231

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

One (1) water sample was received on 02/24/22 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. DSB034WB - 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 J8B034WL. 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 22B231-01M/22B231-01S. Refer to Matrix QC summary form for details.

## Surrogate

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

#### Sample Analysis

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

LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	Client : EUROFINS EATON ANALYTICAL	ANALYTICAL							SDG NO. : 22B231
Project	: 989088								Instrument ID : D5
			## ## ## ## ## ## ## ##		:=====================================			                         	
Client		Laboratory	aboratory Dilution	%	Analysīs	Extraction	Sample	Calibration Prep.	n Prep.
Sample ID		Sample ID	Factor	Moist	Datelime	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		
MBLK1W		DSB034WB	_	ΑN	02/25/2216:05	02/24/2216:15	LB25009A	LB25003A	22DSB034W Method Blank
LCS1W		DSB034WL	_	۸N	02/25/2216:23	02/24/2216:15	LB25010A	LB25003A	22DSB034W Lab Control Sample (LCS)
20220231101	01	B231-01	_	NA	02/25/2217:18	02/24/2216:15	LB25013A	LB25003A	22DSB034W Field Sample
202202231101MS	01MS	B231-01M	_	Ν	02/25/2217:36	02/24/2216:15	LB25014A	LB25003A	22DSB034W Matrix Spike Sample (MS)
202202231101MSD	01MSD	B231-01S	<b>-</b>	ΑN	02/25/2217:55	02/24/2216:15	LB25015A	LB25003A	22DSB034W MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

client Project	lient : EUROFINS EATON ANALYTICAL roject : 989088	ANALYTICAL					; ; ; ; ; ; ;	; ; ; ; ; ;	SDG NO. Instrume	SDG NO. : 22B231 Instrument ID : D5
					WATER	Н		 	 	
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				
MBLK1W		DSB034WB	-	NA	02/25/2216:05	02/24/2216:15	LB25009A	LB25004A	22DSB034W	22DSB034W Method Blank
LCS1W		J5B034WL	-	NA	02/25/2216:41	02/24/2216:15	LB25011A	LB25004A	22DSB034W	22DSB034W Lab Control Sample (LCS)
20220231101	11	B231-01	_	NA	02/25/2217:18	02/24/2216:15	LB25013A	LB25004A	22DSB034W	22DSB034W Field Sample
2022023110	11MS	B231-01M	,	NA	02/25/2218:13	02/24/2216:15	LB25016A	LB25004A	22DSB034W	22DSB034W Matrix Spike Sample (MS)
20220231101MSD	11MSD	B231-01S	<b>~</b>	NA	02/25/2218:31	02/24/2216:15	LB25017A	LB25004A	22DSB034W	22DSB034W MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EU	Client : EUROFINS EATON ANALYTICAL							SDG NO.	: 228231
	: 989088							Instrument	Instrument ID : D5
			## ## ## ## ## ## ## ## ##					## ## ## ## ## ## ## ## ## ## ## ## ##	
				WATER	띪				
Client	Laborator	-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 5 5 5 3 3 3 3	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	DSB034WB	_	N	02/25/2216:05	02/24/2216:15	LB25009A	LB25005A	22DSB034W M	22DSB034W Method Blank
LCS1W	J88034WL	_	N	02/25/2217:00	02/24/2216:15	LB25012A	LB25005A	22DSB034W L	22DSB034W Lab Control Sample (LCS)
20220231101	B231-01	_	NA	02/25/2217:18	02/24/2216:15	LB25013A	LB25005A	22DSB034W F	22DSB034W Field Sample
20220231101MS		•	NA	02/25/2218:50	02/24/2216:15	LB25018A	LB25005A	22DSB034W M	22DSB034W Matrix Spike Sample (MS)
20220231101MSD		_	Α¥	02/25/2219:08	02/24/2216:15	LB25019A	LB25005A	22DSB034W M	22DSB034W MS Duplicate (MSD)

# **SAMPLE RESULTS**

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

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

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/21/22 09:40

Project : 989088 Date Received: 02/24/22 Batch No. : 228231 Date Extracted: 02/24/22 16:15

Batch No. : 22B231 Date Extracted: U2/24/22 16:15 Sample ID : 202202231101 Date Analyzed: 02/25/22 17:18

Lab Samp ID: 22B231-01 Dilution Factor: 1
Lab File ID: LB25013A Matrix: WATER
Ext Btch ID: 22DSB034W % Moisture: NA
Calib. Ref.: LB25003A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel Motor Oil	ND ND	0.024 0.048	0.012 0.024	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.406	0.475	86	60-130

Hexacosane 0.136 0.119 115 60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 1050ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

REPORT ID: 22B231 Pages

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/21/22 09:40

Project : 989088 Date Received: 02/24/22
Batch No. : 22B231 Date Extracted: 02/24/22 16:15
Sample ID : 20220231101 Date Analyzed: 02/25/22 17:18

Lab Samp ID: 22B231-01 Dilution Factor: 1
Lab File ID: LB25013A Matrix: WATER
Ext Btch ID: 22DSB034W % Moisture: NA
Calib. Ref.: LB25004A Instrument ID: D5

\_\_\_\_\_

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.048	0.024	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Hexacosane	0.406 0.136	0.475 0.119	86 115	60~130 60~130

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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 : 1050ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

REPORT ID: 22B231 Pages

# METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL Date Collected: 02/21/22 09:40

 Project
 : 989088
 Date Received: 02/24/22

 Batch No.
 : 22B231
 Date Extracted: 02/24/22 16:15

 Sample ID
 : 202202231101
 Date Analyzed: 02/25/22 17:18

Lab Samp ID: 22B231-01 Dilution Factor: 1
Lab File ID: LB25013A Matrix: WATER
Ext Btch ID: 22DSB034W % Moisture: NA
Calib. Ref.: LB25005A Instrument ID: D5

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PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP8	ND	0.048	0.024	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene Kexacosane	0.406 0.136	0.475 0.119	86 115	60-130 60-130

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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 : 1050ml Final Volume : 5ml Prepared by : JMuert Analyzed by : SDeeso

# **QC SUMMARIES**

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

: EUROFINS EATON ANALYTICAL Date Collected: 02/24/22 16:15

Project : 989088 Batch No. : 22B231 Sample ID : MBLK1W Date Received: 02/24/22 Date Extracted: 02/24/22 16:15 Date Analyzed: 02/25/22 16:05

Lab Samp ID: DSB034WB Dilution Factor: 1 Lab File ID: LB25009A Matrix: WATER Ext Btch ID: 22DSB034W % Moisture: NA Calib. Ref.: LB25003A Instrument ID: D5

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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	0.402	0.500	80	60-130
Hexacosane	0.143	0.125	115	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 : 1000ml Final Volume : 5ml

Analyzed by : SDeeso Prepared by : JMuert

# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 989088
BATCH NO. : 22B231
METHOD : 3520C/8015B

CALIBRATION REF: LB25003A

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

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSB034WB DSB034WL

LAB FILE ID : LB25009A LB25010A

DATE PREPARED : 02/24/22 16:15 02/24/22 16:15

DATE ANALYZED : 02/25/22 16:05 02/25/22 16:23

PREP BATCH : 22DSB034W 22DSB034W

ACCESSION:

PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)		QCLimit (%)
Diesel	ND	2.50	2.37	95	50-130

LB25003A

	SpikeAmt	LCSResult	LCSRec	QCLimit
SURROGATE PARAMETERS	(mg/L)	(mg/L)	(%)	(%)
Bromobenzene	0.500	0.426	85	60-130
Hexacosane	0.125	0.145	116	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. : 989088

METHOD

: 22B231 : 3520C/8015B

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202202231101 LAB SAMPLE ID : 22B231-01

LAB FILE ID : LB25013A

202202231101MS 22B231-01M LB25014A

202202231101MSD 22B231-01S LB25015A

DATE PREPARED : 02/24/22 16:15 DATE ANALYZED : 02/25/22 17:18 PREP BATCH : 22DSB034W

02/24/22 16:15 02/25/22 17:36 22DSB034W

02/24/22 16:15 02/25/22 17:55 22DSB034W

CALIBRATION REF: LB25003A

LB25003A

LB25003A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikcAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.58	2.42	94	2.55	2.26	89	7	50-130	30
	=========	========	========		========			=======	========	======
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.515 0.129	0.437 0.156	85 121	0.510 0.127	0.383 0.150	75 118		60-130 60-130	

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

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

Date Collected: 02/24/22 16:15 : EUROFINS EATON ANALYTICAL Client

Project : 989088 Date Received: 02/24/22 Batch No. : 22B231 Date Extracted: 02/24/22 16:15

Sample ID : MBLK1W Date Analyzed: 02/25/22 16:05 Dilution Factor: 1 Lab Samp ID: DSB034WB

Lab File ID: LB25009A Matrix: WATER % Moisture: NA Ext Btch ID: 22DSB034W Calib. Ref.: LB25004A Instrument ID: D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT

0.402

Bromobenzene 0.143 0.125 115 60~130 Hexacosane 

0.500

60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Final Volume : 5ml Sample Amount : 1000ml : JMuert Analyzed by : SDeeso Prepared by

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# EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL

PROJECT : 989088 BATCH NO. : 22B231 METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA

DILUTION FACTOR: 1 1

SAMPLE ID : MBLK1W LCS1W

LAB SAMPLE ID : DSB034WB J5B034WL

LAB FILE ID : LB25009A LB25011A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.55	102	30-160
		========	===========	========	
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.460 0.146	92 117	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. : 989088

METHOD

: 22B231 : 3520C/8015B

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202202231101

LAB SAMPLE ID : 22B231-01

202202231101MS 22B231-01M

202202231101MSD 22B231-01S

LAB FILE ID : LB25013A DATE PREPARED : 02/24/22 16:15 DATE ANALYZED : 02/25/22 17:18

LB25016A 02/24/22 16:15 02/25/22 18:13 LB25017A 02/24/22 16:15 02/25/22 18:31 22DSB034W

CALIBRATION REF: LB25004A

PREP BATCH : 22DSB034W

22DSB034W LB25004A

LB25004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.65	2.71	102	2.62	2.95	112	8	30-160	30
	=========	=========	=======================================	======	========		========			
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.469 0.141	88 106	0.525 0.131	0.493 0.150	94 114		60-130 60-130	

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

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

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Client : EUROFINS EATON ANALYTICAL Date Collected: 02/24/22 16:15

Project : 989088 Date Received: 02/24/22 Batch No. : 22B231 Date Extracted: 02/24/22 16:15

Sample ID : MBLK1W Date Analyzed: 02/25/22 16:05

Lab Samp ID: DSB034WB
Lab File ID: LB25009A
Ext Btch ID: 22DSB034W
Calib. Ref.: LB25005A
Dilution Factor: 1
Matrix: WATER
% Moisture: NA
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 Hexacosape	0.402	0.500 0.125	80 115	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

: EUROFINS EATON ANALYTICAL : 989088

PROJECT BATCH NO. : 22B231 METHOD : 352OC/8015B

MATRIX

: WATER % MOISTURE:NA

DILUTION FACTOR: 1

LCS1W

SAMPLE ID : MBLK1W LAB SAMPLE ID : DSB034WB J8B034WL

DATE PREPARED : 02/24/22 16:15 02/24/22 16:15

DATE ANALYZED : 02/25/22 16:05 02/25/22 17:00

PREP BATCH : 22DSB034W 22DSB034W

CALIBRATION REF: LB25005A

ND

ACCESSION:

MBResult SpikeAmt LCSResult LCSRec QCLimit

PARAMETERS

(mg/L) (mg/L)(mg/L) (%) (%) \_\_\_\_\_

30-160

JP8

2.50 2.28

SURROGATE PARAMETERS

SpikeAmt LCSResult LCSRec (mg/L) (mg/L) (%) (%)

Bromobenzene

0.500 0.529 106 60-130

Hexacosane

60-130 0.125 0.147 118

MB: Method Blank sample LCS: Lab Control Sample

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

CLIENT PROJECT : EUROFINS EATON ANALYTICAL

BATCH NO.

: 989088

METHOD

: 22B231 : 3520C/8015B

MATRIX : WATER DILUTION FACTOR: 1

% MOISTURE:NA

SAMPLE ID : 202202231101

LAB SAMPLE ID : 22B231-01

202202231101MS 22B231-01M

202202231101MSD 22B231-01S

LAB FILE ID : LB25013A
DATE PREPARED : 02/24/22 16:15

LB25018A 02/24/22 16:15 LB25019A 02/24/22 16:15 02/25/22 19:08

DATE ANALYZED : 02/25/22 17:18 PREP BATCH : 22DSB034W CALIBRATION REF: LB25005A

02/25/22 18:50 22DSB034W

LB25005A

22DSB034W LB25005A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.65	2.33	88	2.60	2.68	103	14	30-160	30
	========	========	=========			.=======		=======		
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.549 0.160	104 121	0.520 0.130	0.528 0.156	102 120		60-130 60-130	

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