**Eaton Analytical** 

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



DEB: Debbie L Frank

Project Manager

Report:981948 Project:RED-HILL Group:Red-Hill Expanded List (Albuquerque+)

\* 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.

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Eaton Analytical

# 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
Idaho	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

# \* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, LLC

750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 T | 626-386-1100 F | 866-988-3757 www.EurofinsUS.com/Eaton

## 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.eu	rofinsus.	.com/Eaton
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	1		www.eu
Test(s)	Method(s)	Potable	Waste
		Water *	Water
Enterococci	Enterolert	Х	х
Escherichia coli	SM 9221 B.1	x	
(Enumeration)	SM 9221 F SM 9221 C		
Fecal Coliform (P/A and	(MTF/EC), SM 9221	х	х
Enumeration)	E (MTF/EC)		
Fecal Streptococci and	SM 9230 B	х	x
Enterococci			
Heterotrophic Bacteria	SM 9215 B	X	
Legionella	Legiolert®	X	
Pseudomonas aeruginosa	Idexx Pseudalert	х	
Total Coliform (P/A and			
Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	х
Total Coliform, Total			
Coliform with Chlorine		х	x
Present	SM 9221 B	~	~
Total Coliform/E. coli (P/A and			
Enumeration, Idexx Colilert,	SM 9223	x	
Idexx Colilert 18, Colisure)			
Total Microcystins and Nodularins	EPA 546	Х	
Yeast and Mold	SM 9610	x	
Teast and Wold	011 30 10	~	
1,2,3-Trichloropropane	CA SRL 524M-	х	
(TCP) at 5 PPT	TCP	^	
1,4-Dioxane	EPA 522	Х	
2.3.7.8-TCDD	Modified EPA	х	
1-1 1-	1613 B	~	
Acrylamide	<sup>+</sup> LCMS 2440)	Х	
Algal Toxins/Microcystin	+ LCMS 3570	X	
Alkalinity	SM 2320B	Х	х
	EPA 350.1,		
Ammonia	SM 4500-NH3		х
	H		
Asbestos	EPA 100.2	X	Х
Bicarbonate Alkalinity as	SM 2330 B	х	х
HCO3	OM 5040 D		
BOD/CBOD	SM 5210 B		Х
Bromate Carbonate as CO3	*LCMS- 2447 SM 2330 B	X	×
Carbonyls	EPA 556	X	X
Carbonyis	EPA 410.4,	X	X
Chemical Oxygen Demand	SM 5220D		x
Chlorinated Acids	EPA 515.4	x	
Childhildted / totas	Palin Test	~	
	Chlordio X Plus,		
Chlorine Dioxide	SM 4500-CLO2	x	
	D		
Chlorine, Free, Combined,			
Total Residual,	SM 4500-CI G	x	
Chloramines			
Color	SM2120B	х	
Conductivity	EPA 120.1,	×	×
Conductivity	SM 2510B	X	X
Corrosivity (Langelier			
Index), Carbonate as CO3,	SM 2330 B	х	
Hydroxide as OH	0	<u>^</u>	
Calculated			
Cyanide (Amenable)	SM 4500-CN	х	x
	G		
Cyanide (Free)	SM 4500CN F	X	Х
Cyanide (Total)	EPA 335.4	X	Х
Cyanogen Chloride (Screen)	+ 335 Mod	х	
(Screen) Diquat and Paraquat	(WC-24467) EPA 549.2	v	
Diquat and Paraquat DBP and HAA	SM 6251 B	X	
DBP and HAA Dissolved Organic Carbon	SM 5310 C	X X	
Dissolved Organic Carbon Dissolved Oxygen	SM 4500-O G	^	x
EDB/DCBP/TCP	EPA 504.1	х	^
EDB/DEBP/TCP			
Disinfection Byproducts	EPA 551.1	х	
EDTA and NTA	+ WC-2454	X	
	EPA 548.1,		
Endothall	<sup>+</sup> (LCMS-2445)	x	
Fluoride	SM 4500F C	x	х
Glyphosate	EPA 547	X	
Glyphosate and AMPA	+ LCMS-3618	X	
Gross Alpha and Gross Beta	EPA 900.0	х	х

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

(\*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.
(+) 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 #: 981948 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 **January 20, 2022** at **1440**. 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
202201200765	MOANALUA WELLS (331-223-TP202)			01/18/2022 0845
	(SUB)Gas Fraction Hydrocarbons TPH	8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	
	TPH 8015 Jef Fuel 8			
202201200797	TRAVEL BLANK::MOANALUA WELLS	(331-223-TP202)		01/18/2022 0845
	(SUB)Gas Fraction Hydrocarbons			
202201240084	RUSH			01/18/2022 08:45
	RUSH			

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🎲 eurofins	ofins			CHA	Z	OF CUSTO	CHAIN OF CUSTODY RECORD		С	
		Eaton Analytical	EUROFINS EATON ANALYTICAL USE ONLY:	ICAL USE	ONLY:		SAMPI ES CI	CK1	ablaust COC BY.	5
750 Royal	750 Royal Oaks Drive, Suite 100							SAMPLES LOGGED IN BY:	GED IN BY:	4
Phone: 62	Morriovia, CA 91010-3029 Phone: 626 386 1100	<u>0</u>	SAMPLE TEMP RECEIVED AT: Colton / No. California / Arizona	D AT: / Arizona		°C ( Compliance: 4 ± 2 °C		SAMPLES REC'D DAY OF COLLECTION?		(check for yes)
Fax: 020 300 1101		ŕ	Monrovia			C (Compliance: 4 ± 2 °C )	ce: 4 ± 2 °C )			
800 566 L	800 266 LABS (800 202 0/2	5	CONDITION OF BLUE ICE: Frozen METHOD OF SHIPMENT: Pick-Up	EICE: Fro	k-Up /	Walk-In / FedEx / UF	E: Frozen Partially Frozen Thawed Wet loe IT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other:	Wet Ice	No Ice	
TO BE COMPLE	TO BE COMPLETED BY SAMPLER:						(check for yes)	s)	(chec	(check for yes)
COMPANY/AGENCY NAME:	SENCY NAME:	6	PROJECT CODE:			COMP	COMPLIANCE SAMPLES	NON-COMPLI	NON-COMPLIANCE SAMPLES	×
	BWS HONOLULU	חרט	Red Hill	Ē		- Requires sta Type of samples (circle one):	- Requires state forms R s (circle one): ROUTINE SPECIAL		EGULATION INVOLVED: CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,)	, NPDES, FDA,)
EEA CLIENT CODE:	CODE:	COC ID:	SAMPLE GROUP:			SEE ATTACHE	SEE ATTACHED BOTTLE ORDER FOR ANALYSES	R ANAL YSES	x (check for yes), <u>OR</u>	s), <u>OR</u>
-	Honolulu					list ANALYSE	list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	r of bottles sent	for each test for ea	ch sample)
TAT requeste	TAT requested: rush by adv notice only	s only	STD 1 wk _X 3 day	_ 2 day	_ 1 day _	1111-				
ajgmaz etad etamaz	SAN	SAMPLE ID	CLIENT LAB ID	* XIЯТАМ	АТАО ОЛЭГЭ АТАО ОЛЭГЭ	мөөкіу Көа н			COM	SAMPLER
1-18-22 0845		MOANALUA WELLS	HI0000331-223	CFW		×				
	Temper	Temperature Blank					-		Temp Blank: 17.0	ık: <u>/7.0</u> °C
* MATRIX TYPES:		RSW = Raw Surface Water RGW = Raw Ground Water	<b>CFW</b> = Chlor(am)inated Finished Water <b>FW</b> = Other Finished Water	ed Finishe Vater	d Water	SEAW = Sea Water WW = Waste Water	er BW = Bottled Water er SW = Storm Water	ter SO = Soil er SL = Sludge		O = Other - Please Identify
	SIGN	SIGNATURE		PRI	PRINT NAME		COMPANY/TITLE		DATE	TIME
SAMPLED BY:	Dula	h		Dere	Derek Dotson	u l	Honolulu Board of Water Supply		1-18-2022	
RELINQUISHED BY:	BY: A L	2		Dere	Derek Dotson	n 🦾	Honolulu Board of Water Supply	2281-1	21-15-2022	202
RECEIVED BY:	Acres	235	20	5,000	-	Sunthes	FEA		1-20-22	1440
RELINQUISHED BY:	BY:									
RECEIVED BY:						1				
Pa									PAGE	1 OF 1

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INTERNAL CHAIN OF CUSTODY RECORD SAMPLE TEMP RECEIVED: Note: If samples are out of temperature rare, let the ASMs know, ASMs will determine whether to proceed with analysis or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No SAMPLES REC'D DAY OF COLLECTION? Yes / No Corr. Factor -0.2°C) (Final = -0.0°C) condition OF ICE: Frozen - Partially Frozen - Thawed - N/A - CONDITION OF ICE: Frozen - Other:	LAP) (if received after 24 hrs of sample collection) not frozen (can be ≿10°C if received on ice the same day as sample collection, within 8 hours) C (if received after 2 hours of sample collection)	<ul> <li>(Fhal * 'c) 2 = (Observation* 'c) (Corr.Factor 'C) (Fhal = 'C)</li> <li>(Fhal * 'C) 4 = (Observation= 'C) (Corr.Factor 'C) (Fhal * 'C)</li> <li>(C) (Fhal * 'C) 4 = (Observation= 'C) (Corr.Factor 'C) (Fhal * 'C)</li> </ul>	pH strip type: 0 - 14 or Expiration DateResults: ation Date: Results	Samples with Headspace (see below): Radon Internal COFC for additional bottles) ws, 566, 536, Anatoxin, LCMS methods using 40 mi vials, international clients: Namp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Nonel<6 >6mm Test Samp ID Bottle # Mmm		Eurofins Eaton Analytical 1/20/22 1/440 companyTittle DATE TME	lytical	55 - 52 to 26 hz - 210t
International Eation Analytical       Internat Chain Ch	Compliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection) 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the sau 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	If out of temperature range for both Chemietry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants A Disorial (frace ived after 24 hrs of sample collection)	5) pH Check. Manufacturer: Lot Number: Lot Number:pH strip types (c) pH Check. Manufacturer: Sansafe. Lot No.: Expiration Date:	7) VOA and Radon No Samples with Headspace: Samples with Headspace (see below): Samples with Headspace (see below): Headspace: Headspace: Headspace (see below): Exempt from headspace (see below): Headspace (see below): Samples (see below): Headspace (see below): Headspace (see below): Headspace (see below): Samples (see below): Headspace (see below): Samples (see below): Headspace (see below): Headspace (see below): Samples (see below): Samples (see below): Headspace (see below): Samples (see below): Headspace (see below): Samples (see below): Headspace (see below): Samples (see below): Samples (see below): Headspace (see below): Samples (see below): S	Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	2 Cristano	SAMPLES CHECKED AGAINST COC BY:	+ VCCCCCO: 791-2-2472-947 48 791.

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🖏 eurofins		Eaton Annivitani	Kit Orde	Kit Order for Honolulu Board of Water Supply			Page 1 of 1
	100		Debbie L Frank is yc	Debbie L Frank is your Eurofins Eaton Analytical, LLC Service Manager			
750 R Monro	750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629	100 3629 362757	Note: Samnler P	Note: Samuler Please return this paper with vour samples		Created Date & Time: 12/10/2021 §	9:13:49PM
(979)	380-1100 FAX (800) 90	88-3/9/	NOIG. Jaimpier I	Client ID: HONOLULU			
	Kit #: 307684	Kit #: 307684	Proj	Project Code: RED-HILL Bottle Orders			
E E	Created By: - [AutoGenerated] Deliver By: 01/05/2022 STG: Bottle Orders Ice Type: G Pre Registered	Generated] 022 vrders	G P P S		(+ən		
		Ship Sample Kits to Honolulu Board of Water Supply 630 South Beretania Street Chemistry Lab Honolulu, HI 96843	Supply	Send Report to Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	Billing Address Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	ter Supply treet toom 308	
	ì	Attn: Ron Fenstemacher Phone: 808-748-5841 Fax: 808-550-5572		Attri: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	Attn: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018		
# of Sample Tests			Bottle Qty -	Bottle Qty - Type [ preservative information ]	Total	UN DOT #	
-1 @625A	Physis C, @625BN_1	@625A_Physis-C, @625BN_Physis-C, @626PAH_Physis_TICS_C	- 1	4 - 1L amber glass [ 1 ml Thio 8% ]	4		
1 TPH 80 8015 Je	TPH 8015 Diesel and Motor O 8015 Jet Fuel 8 C	TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 8015 Jet Fuel 8_C		♦ - 1L amber glass [ 1 ml Thio 8% ]	Q		
1 8015 Gas_C	as_C		-3 - 40ml am	3 - 40ml amber glass vial [ 1 drop Thio (8%) ]	3		
1 8015 G	8015 Gas_C TB		🔪 2 - 40ml am	2 - 40ml amber glass vial [1 drop Thio (8%) + H20 ]			
A-QVOA	@VOASDWA C plus plus TICs TBG	S TBC	3-40ml am	3 - 40ml amber glass vial [ 25mg AA+ H20+10 drop 1:1 HCL ]		UN1789	
1-@VOA	@VOASDWA C plus plus TICs C	sc	3 - 40ml am	3 - 40ml amber glass vial [25mg Ascorbic+drop 2ml 1:1-HCL]		UN1789	
1 @8015	@8015 Ethanol_Subbed		3 - 40ml am	3 - 40ml amber glass vial [ no preservative ]	3		
Sum Tests: 7	2			Sum	Sum Bottles: 24		
Comments							
SITE ID: HALAWA WEL	SITE ID: HALAWA WELLS (331-206-TP065)						
SAMPLER: FOUR 1 LITEF	RAMBER GLASS BOT	SAMPLER: FOUR 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND SIX 1 LITER AMBER	D SIX 1 LITER AMBER	CLASS BOTTLES FOR TPH 8015 SERIES.			
SHIPPING: Travel Blanks Label Cooler o	- TBA/MTBE, VOASDV n TOP and right below	SHIPPING: Travel Blanks - TBA/MTBE, VOASDWA - Prepare TBs in the VOA LAB. Label Cooler on TOP and right below both Handles with Site description of contents ( use extra Container Labels)	A LAB. ription of contents ( us	e extra Container Labels)			
	ASM: Be sure to coordinate Follow-up as r Acetone - follow-ups need to use EPA 624	ASM: Be sure to coordinate Follow-up as needed for any new detections in Field sample Acetone - follow-ups need to use EPA 624	ections in Field sample	Şi			
e 7 of 47 pag							
Code	Status	Date Shinned	Via	Tracking #	# of Coolers	Prenared Bv	

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🖏 eurofins		Eaton Analytical	<b>Kit Order</b> Debbie L Frank is yo	Kit Order for Honolulu Board of Water Supply Debbie L Frank is your Eurofins Eaton Analytical, LLC Service Manager	Manager		Page 1 of 1
750 F Monr (626)	750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 (626) 386-1100 FAX (866) 988-3757	uite 100 6-3629 ) 988-3757	Note: Sampler Pl	Please return this paper with your samples		Created Date & Time: 12/10/2021 9.	9:13:39PM
Ę	Kit #: 307683 William	Kit #: 307683 Kit #: 307684 Kit #: 30768	Proje Grou Desc	Client ID: HONOLULU Project Code: RED-HILL Bottle Orders Group Name: Red-Hill Expanded List (Albuquerque+) PO#/JOB#: C20525101 exp 05312023 Description: AIEA WELLS PUMPS 1&2 (260) - 1	(++		
		Ship Sample Kits to Honolulu Board of Water Supply 630 South Beretania Street Chemistry Lab Honolulu, HI 96843	Supply	Send Report to Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	Billing Address Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	ater Supply Street Room 308	
		Attn: Ron Fenstemacher Phone: 808-748-5841 Fax: 808-550-5572		Attr: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	Attn: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	_	
# of Sample Tests			Bottle Qty -	Bottle Qty - Type [ preservative information ]	Total	UN DOT #	
1 TPH 80	LE Diesel and Moto	@626A_Physis.C. @625BN_Physis.C; @625FM1_Physis_TICS_C TPH 8015 Diesel and Motor Oil C. TPH 8015, let Final 5. C. TPH	- 11 -	<u>4 - 11. ambargless { 1 ml Thio 8% }</u> 27. 11. ambar class { 1 ml Thio 8% 1	4		
	8015 Jet Fuel 8_C		·~		Þ		
1 8015 Gas_C	8015 Gas_C 8015 Gas_C TR		3 - 40ml an 2 - 40ml an	3 - 40ml amber glass vial [ 1 drop Thio (8%) ] 2 - 40ml amber close vial [ 1 dron Thio (8%) + U20 1	е с		
	@VOASDWATC Plus Phe TICs TBC	ice TBC	3-40mlen	2 - 40ml amber diass viail - 35mg AA+ H20+10 drop 1:1 116L-1		UN1789	
4 OVDAS	@VOASDWA G Plus plus TICs C	ics c	3 - 40ml an	3 - 40ml amber glass vial [25mg Ascorbio-drop 2ml 1:1 HCL ]		-68/LIND	
4	@8015 Ethanol_Subbed		<del>3 - 40ml an</del>	3 - 40ml-amber glass vial [ no preservative ]	8		
Sum Tests: 7	2				Sum Bottles: 24		
Comments AIEA WELLS F	Comments AIEA WELLS PLIMPS 18.2 (260) (331-203-TP400)	331-203-TP400)					ſ
SAMPLER: Four 1 LITER	AMBER GLASS BO	TTLES FOR 625 SERIES AND	Six 1 LITER AMBER (	SAMPLER: Four 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND Six 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES.			
SHIPPING: Travel Blanks - Label Cooler o	- TBA/MTBE, VOAS n TOP and right bel	SHIPPING: Travel Blanks - TBAMTBE, VOASDWA - Prepare TBs in the VOA LAB. Label Cooler on TOP and right below both Handles with Site description of contents ( use	A LAB. ription of contents ( us	se extra Contaienr Labels)			
	to coordinate Follow w-ups need to use E	ASM: Be sure to coordinate Follow-up as needed for any new detections in Field samples. Acetone - follow-ups need to use EPA 624	ections in Field sample	ES			
age 8 of 47							
epages	Status	Date Shinned	Via	Tracking #	# of Coolers	Prenared Bv	

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င်္နီ eurofins			Kit Order	for Honolulu Board of Water Supply		) D I I	
	Eaton /	Eaton Analytical	Debbie L Frank is you	ur Eurofins Eaton Analytical, LLC Service Manager	Manager		
750 Royal O: Monrovia, Ca (626) 386-11(	750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 (626) 386-1100 FAX (866) 988-3757	00 29 5-3757	Note: Sampler PI	Note: Sampler Please return this paper with your samples		Created Date & Time: 12/10/2021 9:13:59PM	W
Kit # Created By: Deliver By STG Ice Type Pre Registered	Kit #: 307685 Will #: 307685 Created By: - [AutoGenerated] Deliver By: 01/05/2022 STG: Bottle Orders Ice Type: G Registered	Kit #: 307685	Proje Grou Dese	Client ID: HONOLULU Project Code: RED-HILL Bottle Orders Group Name: Red-Hill Expanded List (Albuquerque+) PO#/JOB#: C20525101 exp 05312023 Description: MOANALUA WELLS - Every 1 wee	lue+)		
		Ship Sample Kits to Honolulu Board of Water Supply 630 South Beretania Street Chemistry Lab Honolulu, HI 96843	t	Send Report to Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	Billing Address Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolutu, HI 96843	ater Supply Street Room 308	
		Attn: Ron Fenstemacher Phone: 808-748-5841 Fax: 808-550-5572		Attn: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	Attn: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018		
# of Sample Tests			Bottle Qty - T	Bottle Cty - Type [ preservative information ]	Total	UN DOT #	1
4GB26A_Physis	5 C, @625BN P1	@626A Physis C, @625BN Physis C, @625PAH Physis TICS	န ပ	1L amber glass [ 1 ml Thio 8% ]	þ		
1 TPH 8015 Diesel a 8015 Jet Fuel 8 C	sel and Motor Oil	TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 8015 Jet Fuel 8 C	لا بك	24- 1L amber glass [ 1 ml Thio 8% ]	6		
1 8015 Gas_C			3 - 40ml amb	3 <sup>1</sup> - 40ml amber glass vial [ 1 drop Thio (8%) ]	£		
1 8015 Gas_C TB	B		2 - 40ml amb	2 - 40ml amber glass vial [ 1 drop Thio (8%) + H20 ]	2		
4 @VOASDWA(	@VOASDWA G plus plus TIGs TBC	TBC	dml amb	3-40ml ambor glass vial [25mg AA+ H20+10 drop 4:1 HCL ]	1		1
-+- @AOASDWA.C	@VOASDWA C plue plus TICs C		3 - 40ml amb	<u>3 - 40ml amber glass vial [25mg Asconbiotdrop 2ml 4:1 HCL ]</u>			
1 @8045 Ethanol Subbed-	1-Subbed		4 - 40ml emb	4 - 40ml ember glass vial [ no preservative ]			
Sum Tests: 7	<b></b> 1			Sur	Sum Bottles: 32		
Comments 3rd MS/MSD							Γ
SITE ID: MOANALUA WELLS (331-223 -TP202)	(331-223 -TP202						
SAMPLER: Eight 1 LITER AMBEF	3 GLASS BOTTL	ES FOR 625 SERIES AND	Nine 1 LITER AMBER	SAMPLER: Eight 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND Nine 1 LITER AMBER GLASS BOTTLES FOR TPH 8015 SERIES. THIS IS A MS/MSD SITE for 600 and 8000 series testing	HIS IS A MS/MSD SITE for (	600 and 8000 series testing	
	ATBE, VOASDW and right below t	SHIPPING: Travel Blanks - TBA/MTBE, VOASDWA - Prepare TBs in the VOA LAB. Label Cooler on TOP and right below both Handles with Site description of contents ( use	LAB. iption of contents ( use	extra Contaienr Labels)			
	dinate Foltow-up teed to use EPA	ASM: Be sure to coordinate Follow-up as needed for any new detections in Field samples. Acetone - follow-ups need to use EPA 624	ctions in Field samples				
Status Code		Date Shinned	Vĩa	Trackino #	# of Coolers	Prenared Bv	

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Page 9 of 47 pages



**Eaton Analytical** 

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 981948 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 8015 Gas, TPH Diesel, Motor Oil and Jet Fuels are submitted by Emax Laboratories



**Eaton Analytical** 

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 981948 Project: RED-HILL Group: Red-Hill Expanded List (Albuquerque+)

E 6 P	Ionolulu Board of W Erwin Kawata 30 South Beretania S Public Service Bldg." I Ionolulu, HI 96843	Street			Samples Rec 01/20/2022 1	
Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL

Laboratory Data

Samples Received on: 01/20/2022 1440

Report: 981948 Project: RED-HILL Group: Red-Hill Expanded List (Albuquerque+)

Honolulu Board of Water Supply

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

Tel: (626) 386-1100

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
MOANAL	LUA WELLS	(331-223-T	P202) (20220120	<u>)0765)</u>		Sam	pled on 01/18	/2022 084	5
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
01/21/22	01/21/22 14:12			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
01/24/22	01/25/22 14:53			(SW 8015B)	TPH Diesel	ND	mg/L	0.024	1
01/24/22	01/25/22 14:53			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.047	1
		EPA 8015 -	Jet Fuel 5 C8-C	:18					
01/24/22	01/25/22 14:53			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.047	1
		EPA 8015 -	Jet Fuel 8 C8-C	:18					
(	01/25/22 14:53			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.047	1
TRAVEL	BLANK::MC	DANALUA V	VELLS (331-223	<u>-TP202) (2022</u>	<u>201200797)</u>	Sam	pled on 01/18	/2022 084	5
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
01/21/22	01/21/22 16:02			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1

## 🛟 eurofins **Eaton Analytical**

Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227)



ABORATORIES, INC.

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

Date: 02-01-2022 EMAX Batch No.: 22A207

Attn: Jackie Contreras

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

Subject: Laboratory Report Project: 981948

\_\_\_\_\_

Enclosed is the Laboratory report for samples received on 01/21/22. The data reported relate only to samples listed below :

Sample ID	Control # Col Date	Matrix	Analysis
202201200765	A207-01 01/18/22	WATER	TPH GASOLINE TPH
202201200797	A207-02 01/18/22	WATER	TPH GASOLINE
202201200765MS	A207-01M 01/18/22	WATER	TPH GASOLINE
			TPH DIESEL
202201200765MSD	A207-01S 01/18/22	WATER	TPH GASOLINE
			TPH DIESEL

The results are summarized on the following pages.

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

Sincerely yours,

Caspar<sup>9</sup>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

्रैं eurofins	fins	Submittal Form $2 \ \beta \ \beta \ 2 \ 0 \ \gamma$ Date:*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!Report & Invoice must have the Folder # 981948 Job # 1000014	Il Form $23R207$ in the submitted under different Fold out	Date: 1/21/2022 er Numbers!
		Report all quality control data according to Method. Include dates anal Results must have Complete data & QC with Approval Signature.	<u>I data according to Method. Include dates analyzed.</u> Date extracted (if extracted) and Method reference on the report mplete data & QC with Approval Signature.	ference on the report.
Ship To: `EMAX L 3051 Fuj Torrance	Ship To: `EMAX Laboratories, Inc. 3051 Fujita St. Torrance, CA 90505	Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Phone (626) 386-1165 Fax (626) 386-1122 Invoices to: Eurofins Eaton Analytical, LLC Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605	ninistrator inset.com 00, Monrovia, CA 91016 22 LLC ter, PA 17605	Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix. Samples from: HAWAII
Phon Folder #: 981948	Phone: 310-618-8889 Fax: 310-618-0818 sr #: Report Due: 48 01/25/2022	3 day rush		
Sample ID 202201200765 Sample type:	Client Sample ID for reference on 0765 MOANALUA WELLS (331-223-TP202) Sample Event:	Sample I 0 Facility ID:	Date & Time Matrix     Clip Code     PWSID       1/18/22     0845     DW       Sample Point ID:     Static ID:	)LS
Sample type Method SW 8015B SW 8015B EPA 8015 EPA 8015	EPA 8015	sis Requested 3as Fraction Hydrocarbons 015 Diesel and Motor Oil el 5 C8-C18 el 8 C8-C18		
2 202201200797 Sample type:	Client Sample ID for re TRAVEL BLANK::MOANAL Sample E	Sample [ 31-223-TP202) Facility ID:	Date & Time Matrix     Clip Code     PWSID       1/18/22     0845     DW       Sample Point ID:     Static ID:	JLS
Method SW 8015B	Prep Method An EPA 5030C (SL	Analysis Requested (SUB)Gas Fraction Hydrocarbons		
Relinquished by Received by Received by Received by Received by	ed by XM Sample Control by Man C . Sample Control by	Date     [12]     Time     1128       Date     1(21/21_Time_1:28)       Date     Time       Date     Time	NoTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS An Acknowledgement of Receipt Is requested to attin uackie Contreras $Tewp: 1.6^{\circ}$	s cELSIUS Jackie Contreras
74	REPORT ID: 22A207 <sup>50 Royal</sup> Oaks Drive, Suite 100, Monrovia, CA	Page 3 of 5 uite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (	Page 3 of 5 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton	Page 2 of 35

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### SAMPLE RECEIPT FORM 1

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Reference: Addendum SM02.11.1 Form: SM02F1

Type of De	elivery		Airbill / Tracki	ng Number	ECN 22A207	
	□ Others				Recipient A AN RAW	20
🗆 EMAX Courier 🌵 Client Deli	very				Date 01 21 22	Time 11:20
COC INSPECTION				·	(	
Client Name	Client PM/FC		Sampler Name	Sampling Date/Time	Sample ID	12 Matrix
Address	🗗 Tel # / Fax #		Courier Signature	Analysis Required	Preservative (if any)	Ø TAT
Safety Issues (if any)	High concentrations exp	ected	□ From Superfund Site	Rad screening required		/
Note:						
PACKAGING INSPECTIC	)N					
Container	Cooler		D Box	🗆 Other		
Condition	Custody Seal		🗇 Intact	Damaged		
Packaging	🗭 Bubble Pack		Styrofoam	Popcorn ·	Sufficient	D
Temperatures	Cooler 1 1.6 °C	🗆 Co	oler 2°C	□ Cooler 3 °C	Cooler 4 °C	□ Cooler 5 °C
(Cool, ≤6 °C but not frozen)	Cooler 6°C	🗆 Coo	oler 7°C	□ Cooler 8°C	Cooler 9 °C	Cooler 10°C
Thermometer:	A - S/N 210191066 a 1	1 day	(B-)S/N_210271396	C-S/N 21027 1399	D - S/N	
Comments: 🗆 Temperature is ou	t of range. PM was informe	d IMM	EDIATELY.			
Note:						
DISCREPANCIES			•			
LabSampleID	LabSampleContainerID	Code		bel ID / Information	Corrective	Action
1	1-3	022	analysis is not	visible	R	
2	8-9	D7	label lists two do	ntes - 1/4/22 and	RI	
			01/10/22		• •	
	4-7	D2	Jet Fuel & is r	not indicated on	NK I	
			label			
	· · · · · · · · · · · · · · · · · · ·					
<	· · · · · · · · · · · · · · · · · · ·			Constant of the State of the St		
· · ·						····
				. / /		
		· · · · ·		C1/81/22		,
D pH holding time requirement	for water samples is 15 mi	ns. W	ater samples for pH analys	sis are received beyond 15 m	ninutes from sampling time.	MD-1124/22
				5	r G	
NOTES/OBSERVATIONS:		ia		·		
Management				·		
LEGEND:					Continue to next pag	•
Code Description-Sample Mana	romont	Codo	Description-Sample Manag	romont		
D1 Analysis is not indicated in	0		Out of Holding Time	gement	Code Description-Sample Manag R1 Proceed as indicated in COC	
(D2) Analysis is not indicated in $(D2)$ Analysis mismatch COC vs			Bubble is >6mm		R2 Refer to attached instruction	
D3 Sample ID mismatch COC v			No trip blank in cooler		R3 Cancel the analysis	
D4 Sample ID is not indicated in			Preservation not indicated in	1	<b>R4</b> Use vial with smallest bubble fi	irst
D5 Container -[improper] [leaki			Preservation mismatch COC		R5 Log-in with latest sampling date	
D6 Date/Time is not indicated in			Insufficient chemical preserv		R6 Adjust pH as necessary	. A
(D7) (Date) Time mismatch COC v	Addition and the second s		Insufficient Sample		R7 Filter and preserved as necessar	
D8 Sample listed in COC is not			No filtration info for dissolv	ed analysis	R8 momed	Ulut.
D9 Sample received is not listed		D21	No sample for moisture determ	ination	R9	
D10 No initial/date on correction	s in COC/label	622	label covers an	alysis	R10	
D11 Container count mismatch C	COC vs received	D23	·····		R11	
D12 Container size mismatch CC		D24		<u> </u>	R12	
	JOCOLYNO //	Ι.	1	$(1_{0}, 1_{-})$		ah
Sample Labeling		u	SRF	apple	PM	
Date	01/21/22 1/24/0	んみ	Date	-ipilar	Date	-Juju
	• • • •			( /		

## **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.

# LABORATORY REPORT FOR

# EUROFINS EATON ANALYTICAL

## 981948

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

SDG#: 22A207

REPORT ID: 22A207

Pagea de of 3547 pages

#### CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 981948

SDG : 22A207

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

A total of two(2) water samples were received on 01/21/22 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. VG39A12B - 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. VG39A12L/VG39A12C 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 A207-01M/A207-01S. Refer to Matrix QC summary form for details.

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

Sample Analysis Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met. LAB CHRONICLE TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUKOFIN Project : 981948	NS EATON	ANALYTICAL						SDG NO. Instrument ID	SDG NO. : 22A207 Instrument ID : GCT039
				LAM	WATER				
Client	Laboratory	'y Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch	Notes
r 8 8 9 1 1 1 1			  -  -  -  -			5 5 5 5 5 7			• • • • • • • • • • • • • • • • • • • •
<b>MBLK1W</b>	VG39A12B	-	NA	01/21/2205:02	01/21/2205:02	EA20032A	EA20023A	22VG39A12	22VG39A12 Method Blank
LCS1W	VG39A12L	-	NA	01/21/2205:39	01/21/2205:39	EA20033A	EA20023A	22VG39A12 1	22VG39A12 Lab Control Sample (LCS)
LCD1W	VG39A12C	-	NA	01/21/2206:15	01/21/2206:15	EA20034A	EA20023A	22VG39A12 1	22VG39A12 LCS Duplicate
202201200765	A207-01	-	NA	01/21/2214:12	01/21/2214:12	EA20047A	EA20044A	22VG39A12	22VG39A12 Field Sample
202201200765MS	A207-01M	-	NA	01/21/2214:48	01/21/2214:48	EA20048A	EA20044A	22VG39A12	22VG39A12 Matrix Spike Sample (MS)
202201200765MSD	A207-01S	¢	NA	01/21/2215:25	01/21/2215:25	EA20049A	EA20044A	22VG39A12	22VG39A12 MS Duplicate (MSD)
202201200797	A207-02	~	NA	01/21/2216:02	01/21/2216:02	EA20050A	EA20044A	22VG39A12	22VG39A12 Field Sample

FN - Filename % Moist - Percent Moisture

# SAMPLE RESULTS

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

***************************************				
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	01/18/22 08:45
Project : 981948		Date	e Received:	01/21/22
Batch No. : 22A207		Date	Extracted:	01/21/22 14:12
Sample ID : 202201200765		Date	e Analyzed:	01/21/22 14:12
Lab Samp ID: A207-01		Dilut	ion Factor:	1
Lab File ID: EA20047A			Matrix:	WATER
Ext Btch ID: 22VG39A12		2	% Moisture:	NA
Calib. Ref.: EA20044A		Inst	trument ID:	39
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
GASOLINE	ND	0.020	0.010	
٩				
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0344	0.0400	86	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: 5mlPrepared by: SCervaAnalyzed by : SCerva

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

=======================================				================	===
Client : EUROFII	S EATON ANALYTICAL	. Date	Collected:	01/18/22 08	:45
Project : 981948	<b>v</b>	Dat	e Received:	01/21/22	
Batch No. : 22A207		Date	Extracted:	01/21/22 16	:02
Sample ID : 2022012	200797	Dat	e Analyzed:	01/21/22 16	:02
Lab Samp ID: A207-02			ion Factor:		
Lab File ID: EA2005			Matrix:	WATER	
Ext Btch ID: 22VG39	12		% Moisture:	NA	
Calib. Ref.: EA2004	A	Ins	trument ID:	39	
*********************					===
	RESULTS	RL	MDL		
PARAMETERS	(mg/L)	(mg/L)	(mg/L)		
				-	
GASOLINE	ND	0.020	0.010		
SURROGATE PARAMETERS	S RESULT	SPK AMT	%RECOVERY	QC LIMIT	
Bromofluorobenzene	0.0327	0.0400	82	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: 5mlPrepared by: SCervaAnalyzed by : SCerva

REPORT ID: 22A207

# **QC SUMMARIES**

Page age of 3547 pages

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

			============	
Client : EUROFIN	IS EATON ANALYTIC	AL Date	Collected:	01/21/22 05:02
Project : 981948		Dat	e Received:	01/21/22
Batch No. : 22A207		Date	Extracted:	01/21/22 05:02
Sample ID : MBLK1W		Dat	e Analyzed:	01/21/22 05:02
Lab Samp ID: VG39A12	2B	Dilut	ion Factor:	1
Lab File ID: EA20032	2A		Matrix:	WATER
Ext Btch ID: 22VG39A	12		% Moisture:	NA
Calib. Ref.: EA20023	SA	Ins	trument ID:	39
		================	================	
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/l)	(mg/l)	
				-
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	S RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0331	0.0400	83	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: 5mlPrepared by: SCervaAnalyzed by : SCerva

REPORT ID: 22A207

.

3

SURROGATE PARAMETER Bromofluorobenzene		(mg/L)  0.0400	(mg/L)  0.0454	(%)  114	(mg/L)  0.0400	(mg/L)  0.0435	(%)  109		(%) 70-130	
		•	LCSResult					zzeszt	QCLimit	
Gasoline	ND	0.500	0.528	106	0.500	0.497	99	6	60-130	30
PARAMETERS	MBResult (mg/L)		LCSResult (mg/L)		SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRP (%)
ACCESSION:										
CALIBRATION REF: EA2	2002 <b>3</b> A		EA20023A			EA20023A				
	G39A12		22VG39A12	5:39		22VG39A12	6:15			
DATE PREPARED : 01/ DATE ANALYZED : 01/			01/21/22 0			01/21/22 0				
_AB FILE ID : EA2	20032A		EA20033A			EA20034A				
SAMPLE ID : MBL LAB SAMPLE ID : VG3			LCS1W VG39A12L			LCD1W VG39A12C				
DILUTION FACTOR: 1			1			1				
MATRIX : WAT	ER					% MOISTURE	:NA			
METHOD : 503	50B/8015B	=======================================		- 12 12 12 12 12 12 12 12						======
BATCH NO. : 224										
PROJECT : 981	948									

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

CLIENT         : EUROF           PROJECT         : 98194           BATCH NO.         : 22A20           METHOD         : 5030B	7	LYTICAL								
LAB SAMPLE ID : A207- LAB FILE ID : EA200 DATE PREPARED : 01/21	1200765 01 47A /22 14:12 /22 14:12 9A12		1 20220120074 A207-01M EA20048A 01/21/22 14 01/21/22 14 22VG39A12 EA20044A	4:48		% MOISTURE 1 2022012007 A207-01S EA20049A 01/21/22 1 01/21/22 1 22VG39A12 EA20044A	765MSD			
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	0.493	99	0.500	0.485	97	2	50-130	30
SURROGATE PARAMETER		spikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	======	QCLimit (%)	
Bromofluorobenzene		0.0400	0.0428	107	0.0400	0.0413	103		60-140	-

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

LABORATORY REPORT FOR

# EUROFINS EATON ANALYTICAL

981948

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

SDG#: 22A207

REPORT ID: 22A207

.

Page algo of 3547 pages

#### CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 981948

SDG : 22A207

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

One(1) water sample was received on 01/21/22 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. DSA017WB - 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 DSA017WL. 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 22A207-01M/22A207-01S. 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.

#### CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 981948

SDG : 22A207

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

One(1) water sample was received on 01/21/22 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. DSA017WB - 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 J5A017WL. Refer to LCS summary form for details.

#### Matrix QC Sample

No matrix QC sample was provided on this SDG. One(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 22A208-01M/22A208-01S. 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.

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Client : EUROFINS EATON ANALYTICAL

Project: 981948

SDG : 22A207

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

One(1) water sample was received on 01/21/22 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. DSA017WB - 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 J8A017WL. Refer to LCS summary form for details.

Matrix QC Sample

No matrix QC sample was provided on this SDG. One(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22A208-03M/22A208-03S. 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

WATER       WATER         Laboratory Dilution       %       Analysis       Extraction       Sample       C         Sample ID       Factor       Moist       DateTime       DateTime       Data FN       D         Sample ID       Factor       Moist       DateTime       DateTime       Data FN       D         Sample ID       Factor       Moist       DateTime       DateTime       Data FN       D         Sample ID       1       NA       01/25/2213:41       01/24/2211:15       LA25012A       L         DSA017wL       1       NA       01/25/2213:59       01/24/2211:15       LA25012A       L         A207-01       1       NA       01/25/2215:11       01/24/2211:15       LA25015A       L         A207-01M       1       NA       01/25/2215:11       01/24/2211:15       LA25016A       L	Client : El Project : 98	EATON ANA							SDG NO. : 22A207 Instrument ID : D5
ID         Laboratory         Dilution         %         Analysis         Extraction         Sample           ID         Sample ID         Factor         Moist         DateTime         DateTime         DataFN           ID         Sample ID         Factor         Moist         DateTime         DataFN         DateTime         DataFN           ID         NA         01/25/2213:41         01/24/2211:15         LA25011A           DSA017WL         1         NA         01/25/2213:59         01/24/2211:15         LA25012A           C00765         A207-01         1         NA         01/25/2215:11         01/24/2211:15         LA25015A           C00765WS         A207-01M         1         NA         01/25/2215:11         01/24/2211:15         LA25016A					WATI	ER			
ID         Sample ID         Factor         Moist         DateTime         DateTime         DateTime         DateTime         Date FN         I	rlient	Laborator	rv Dilution	%	Analysis	Extraction	Sample	Calibratic	n Prep.
co0765       bsa017WB       1       NA       01/25/2213:41       01/24/2211:15       LA25011A       1         c00765       bsa017WL       1       NA       01/25/2213:59       01/24/2211:15       LA25012A       1         c00765       A207-01       1       NA       01/25/2214:53       01/24/2211:15       LA25015A       1         c00765Ws       A207-01       1       NA       01/25/2215:11       01/24/2211:15       LA25016A       1	Sample ID	Sample IL	D Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes
DSA017WB         1         NA         01/25/2213:41         01/24/2211:15         LA25011A         1           DSA017WL         1         NA         01/25/2213:59         01/24/2211:15         LA25012A         1           200765         A207-01         1         NA         01/25/2214:53         01/24/2211:15         LA25015A         1           200765MS         A207-01M         1         NA         01/25/2215:11         01/24/2211:15         LA25016A         1				1		* * * * * * * * * * * *			
200765 DSA017WL 1 NA 01/25/2213:59 01/24/2211:15 LA25012A L A207-01 1 NA 01/25/2214:53 01/24/2211:15 LA25015A L A00765MS A A207-01M 1 NA 01/25/2215:11 01/24/2211:15 LA25016A L	WRI K1U	DSAD17WB	-	NA	01/25/2213:41	01/24/2211:15	LA25011A	LA25004A	22DSA017W Method Blank
00765 A207-01 1 NA 01/25/2214:53 01/24/2211:15 LA25015A L 200765MS A207-01M 1 NA 01/25/2215:11 01/24/2211:15 LA25016A L		DSAD17WL		NA	01/25/2213:59	01/24/2211:15	LA25012A	LA25004A	22DSA017W Lab Control Sample (LCS)
A207-01M 1 NA 01/25/2215:11 01/24/2211:15 LA25016A L	202201200765	A207-01		NA	01/25/2214:53	01/24/2211:15	LA25015A	LA25004A	22DSA017W Field Sample
	202201200765MS	A207-01M	-	NA	01/25/2215:11	01/24/2211:15	LA25016A	LA25004A	22DSA017W Matríx Spike Sample (MS)
1 NA 01/25/2215:28 01/24/2211:15 LA2501/A L	202201200765MSL	. 4	-	NA	01/25/2215:28	01/24/2211:15	LA25017A	LA25004A	22DSA017W MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFIN Project : 981948 ====================================	S EATON AN	ALYTICAL Laboratory Dilution Sample ID Factor SSAD174B 1	Aoi %	# ¥		Sample Data FN LA25011A	SDG Inst Calibration Prep. Data FN Batch LA25005A 2205A	SDG NO.         : 22A207           Instrument ID         : D5           Instrument ID         : D5           Batch         Notes           22DSA0174 Method Blank
LCS1W 202201200765	A207-01		A N	01/25/2214:53	01/24/2211:15	LA25015A	LA25005A	22DSA017W Field Sample

FN - Filename % Moist - Percent Moisture

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LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION 

Project : 981948	981948							Instrument ID : D5
				WATER	11			
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		
MBLK1W	DSA017WB	٢	NA	01/25/2213:41	01/24/2211:15	LA25011A	LA25006A	22DSA017W Method Blank
LCS1W	JBA017WL	-	NA	01/25/2214:35	01/24/2211:15	LA25014A	LA25006A	22DSA017W Lab Control Sample (LCS)
202201200765	A207-01	-	NA	01/25/2214:53	01/24/2211:15	LA25015A	LA25006A	22DSA017W Field Sample

FN - Filename % Moist - Percent Moisture

# SAMPLE RESULTS

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

	=======================================	=============		
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	01/18/22 08:45
Project : 981948		Date	Received:	01/21/22
Batch No. : 22A207		Date	Extracted:	01/24/22 11:15
Sample ID : 202201200765		Date	Analyzed:	01/25/22 14:53
Lab Samp ID: 22A207-01		Diluti	on Factor:	1
Lab File ID: LA25015A			Matrix:	WATER
Ext Btch ID: 22DSA017W		2	Moisture:	NA
Calib. Ref.: LA25004A		Inst	rument ID:	D5
		==========	=======================================	
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
Diesel	ND	0.024		
Motor Oil	ND	0.047	0.024	
·				
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
		0 (70		(0 170
Bromobenzene		0.470		60-130
Hexacosane	0.107	0.118	91	60-130
=======================================				

Notes:

ParameterH-C RangeDieselC10-C24Motor OilC24-C36Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.Sample Amount : 1060mlFinal Volume : 5mlPrepared by : HWangAnalyzed by : SDeeso

REPORT ID: 22A207

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

	=================		=======================================	=================
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	01/18/22 08:45
Project : 981948			Received:	
Batch No. : 22A207				01/24/22 11:15
Sample ID : 202201200765				01/25/22 14:53
Lab Samp ID: 22A207-01			on Factor:	
Lab File ID: LA25015A		Dituti	Matrix:	
		9	Moisture:	
Ext Btch ID: 22DSA017W			rument ID:	
Calib. Ref.: LA25005A		105		
		RL	MDL	
	RESULTS			
PARAMETERS	(mg/L)	(ilig/L)	(mg/L)	_
		0.0/7	0.024	-
JP5	ND	0.047	0.024	
		00K MT	NECOVERY	
SURROGATE PARAMETERS	RESULT	SPK_AMI	%RECOVERT	QC LIMIT
		0 / 70		60-130
Bromobenzene	0.377			
Hexacosane	0.107	0.118	91	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 : 1060ml Final Volume : 5ml Prepared by : HWang Analyzed by : SDeeso

REPORT ID: 22A207

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

Client : EUROFINS EAT	ON ANALYTICAL	Date	Collected:	01/18/22 08:45
Project : 981948			e Received:	
Batch No. : 22A207		Date	Extracted:	01/24/22 11:15
Sample ID : 202201200765		Date	e Analyzed:	01/25/22 14:53
Lab Samp ID: 22A207-01		Dilut	ion Factor:	1
Lab File ID: LA25015A			Matrix:	WATER
Ext Btch ID: 22DSA017W		9	% Moisture:	NA
Calib. Ref.: LA25006A		Inst	trument ID:	D5
=======================================		===========		
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
JP8	ND	0.047	0.024	
AUDROGATE DARAMETERO	DEOUU T	ODK ANT	WDE COVEDY	00 1 1917
SURROGATE PARAMETERS	RESULT	SPK_AMI	ARELUVERY	QC LIMIT
Bromobenzene	0.377	0.470	80	60-130
Hexacosane	0.107	0.118	91	
	===================	:=========		

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
 : 1060ml

 Prepared by
 : HWang

 Analyzed by : SDeeso

# **QC SUMMARIES**

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

			===================	
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	01/24/22 11:15
Project : 981948		Date	e Received:	01/24/22
Batch No. : 22A2O7		Date	Extracted:	01/24/22 11:15
Sample ID : MBLK1W		Date	e Analyzed:	01/25/22 13:41
Lab Samp ID: DSA017WB		Dilut	ion Factor:	1
Lab File ID: LA25011A			Matrix:	WATER
Ext Btch ID: 22DSA017W			% Moisture:	NA
Calib. Ref.: LA25004A		Inst	trument ID:	D5
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
Diesel	ND	0.025	0.012	-
Motor Oil	ND	0.050	0.025	
			01000	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.404	0.500	81	60-130
Hexacosane	0.122	0.125	97	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 : HWang Analyzed by : SDeeso

## REPORT ID: 22A207

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 981948
BATCH NO.	: 22A207
METHOD	: 3520C/8015B
===============	

MATRIX	:	WATER	% MOISTURE:NA
DILUTION FACTOR	:	1	1
SAMPLE ID	:	MBLK1W	LCS1W
LAB SAMPLE ID	:	DSA017WB	DSA017WL
LAB FILE ID	:	LA25011A	LA25012A
DATE PREPARED	:	01/24/22 11:15	01/24/22 11:15
DATE ANALYZED	:	01/25/22 13:41	01/25/22 13:59
PREP BATCH	:	22DSA017W	22DSA017W
CALIBRATION REF	:	LA25004A	LA25004A

#### ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.52	101	50-130
			===========		
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.429 0.127	86 102	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 981948
BATCH NO.	: 22A207
METHOD	: 3520C/8015B

MATRIX : WATER		% MOISTURE:NA
DILUTION FACTOR: 1	1	1
SAMPLE ID : 202201200765	202201200765Ms	202201200765MSD
LAB SAMPLE ID : 22A2O7-01	22A207-01M	22A207-01s
LAB FILE ID : LA25015A	LA25016A	LA25017A
DATE PREPARED : 01/24/22 11:15	01/24/22 11:15	01/24/22 11:15
DATE ANALYZED : 01/25/22 14:53	01/25/22 15:11	01/25/22 15:28
PREP BATCH : 22DSA017W	22DSA017W	22DSA017W
CALIBRATION REF: LA25004A	LA25004A	LA25004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD `(%)
Diesel	ND	2.50	2.40	96	2.53	2.31	91	4	50-130	30
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.500 0.125	0.415 0.124	83 99	0.505 0.126	0.368 0.127	73 101		60-130 60-130	
		=============		=======	=======================================				============	========

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

REPORT ID: 22A207

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

	.===============================	.==========				
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	01/24/22 11:15		
Project : 981948		Date	Received:	01/24/22		
Batch No. : 22A207		Date	Extracted:	01/24/22 11:15		
Sample ID : MBLK1W		Date	e Analyzed:	01/25/22 13:41		
Lab Samp ID: DSA017WB		Diluti	on Factor:	1		
Lab File ID: LA25011A			Matrix:	WATER		
Ext Btch ID: 22DSA017W		2	6 Moisture:	NA		
Calib. Ref.: LA25005A		Inst	rument ID:	D5		
*======================================	=================					
	RESULTS	RL	MDL			
PARAMETERS	(mg/L)	(mg/L)	(mg/L)			
				-		
JP5	ND	0.050	0.025			
		CDV ANT	%RECOVERY			
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT		
Bromobenzene	0.404	0.500	81	60-130		
Hexacosane	0.122	0.125	97			
		=============	.==========	=================		

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 : HWang Analyzed by : SDeeso

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

CLIENT : EUF	ROFINS EATON ANALYTICAL
PROJECT : 98'	1948
BATCH NO. : 22/	A207
METHOD : 352	20C/8015B
===============================	
MATRIX : WAT	TER % MOISTURE:NA
DILUTION FACTOR: 1	1

MATRIX :	WATER	% MOISTURE:NA
DILUTION FACTOR:	1	1
SAMPLE ID :	MBLK1W	LCS1W
LAB SAMPLE ID :	DSA017WB	J5A017WL
LAB FILE ID :	LA25011A	LA25013A
DATE PREPARED :	01/24/22 11:15	01/24/22 11:15
DATE ANALYZED :	01/25/22 13:41	01/25/22 14:17
PREP BATCH :	22DSA017W	22DSA017W
CALIBRATION REF:	LA25005A	LA25005A

#### ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	2.23	89	30-160
	===========			============	
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500 0.125	0.497 0.124	99 99	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 981951
BATCH NO.	: 22A208
METHOD	: 3520C/8015B
=================	

MATRIX : WATER		% MOISTURE:NA
DILUTION FACTOR: 1	1	1
SAMPLE ID : 202201200773	202201200773MS	202201200773MSD
LAB SAMPLE ID : 22A208-01	22A208-01M	22A208-01S
LAB FILE ID : LA25018A	LA25019A	LA25020A
DATE PREPARED : 01/24/22 11:15	01/24/22 11:15	01/24/22 11:15
DATE ANALYZED : 01/25/22 15:46	01/25/22 16:04	01/25/22 16:22
PREP BATCH : 22DSA017W	22DSA017W	22DSA017W
CALIBRATION REF: LA25005A	LA25005A	LA25005A
ACCESSION:		

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.60	2.27	87	2.58	2.38	92	5	30-160	30
=======================================					=======================================	*********			=============	========
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.520 0.130	0.441 0.122	85 94	0.515 0.129	0.491 0.125	95 97		60-130 60-130	

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

REPORT ID: 22A207

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

		-==========				
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	01/24/22 11:15		
Project : 981948		Date	e Received:	01/24/22		
Batch No. : 22A207		Date	Extracted:	01/24/22 11:15		
Sample ID : MBLK1W		Date	e Analyzed:	01/25/22 13:41		
Lab Samp ID: DSA017WB		Dilut	ion Factor:	1		
Lab File ID: LA25011A			Matrix:	WATER		
Ext Btch ID: 22DSA017W		9	% Moisture:	NA		
Calib. Ref.: LA25006A		Inst	trument ID:	D5		
=======================================	=======================================					
	RESULTS	RL	MDL			
PARAMETERS	(mg/L)	(mg/L)	(mg/L)			
				-		
JP8	ND	0.050	0.025			
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT		
Bromobenzene	0.404	0.500	81	60-130		
Hexacosane	0.122	0.125	97	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 : HWang Analyzed by : SDeeso

REPORT ID: 22A207

### EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT	:	EUROFINS	EATON	ANALYTICAL		
PROJECT	:	981948				
BATCH NO.		22A207				
METHOD	:	35200/80	15B			
========	=======	===========	======		=======================================	=====
MATRIX	:	WATER		% MOISTURE	:NA	
DILUTION	FACTOR:	1		1		

SAMPLE ID :	MBLK1W	LCS1W
LAB SAMPLE ID :	DSA017WB	J8A017WL
LAB FILE ID :	LA25011A	LA25014A
DATE PREPARED :	01/24/22 11:15	01/24/22 11:15
DATE ANALYZED :	01/25/22 13:41	01/25/22 14:35
PREP BATCH :	22DSA017W	22DSA017W
CALIBRATION REF:	LA25006A	LA25006A

#### ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	2.26	90	30-160
************************					
		SpikeAmt	LCSResult	LCSRec	QCLimit
SURROGATE PARAMETERS		(mg/L)	(mg/L)	(%)	(%)
Bromobenzene		0.500	0.533	107	60-130
Hexacosane		0,125	0.123	98	60-130
				=======================================	

MB: Method Blank sample LCS: Lab Control Sample

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 981951
BATCH NO.	= 22A208
METHOD	: 3520C/8015B
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MATRIX : WATER		% MOISTURE:NA
DILUTION FACTOR: 1	1	- 1
SAMPLE ID : 202201200775	202201200775MS	202201200775MSD
LAB SAMPLE ID : 22A208-03	22A208-03M	22A208-03S
LAB FILE ID : LA25021A	LA25022A	LA25023A
DATE PREPARED : 01/24/22 11:15	01/24/22 11:15	01/24/22 11:15
DATE ANALYZED : 01/25/22 16:40	01/25/22 16:57	01/25/22 17:15
PREP BATCH : 22DSA017W	22DSA017W	22DSA017W
CALIBRATION REF: LA25006A	LA25006A	LA25006A
		•
ACCESSION:		

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.53	1.97	78	2.50	1.84	74	7	30-160	30
			=============			= = = = = = = = = = = = =	========			
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromobenzene Hexacosane		0.505 0.126	0.478 0.112	95 89	0.500 0.125	0.428 0.117	86 94		60-130 60-130	

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