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:986267 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.

ORAT

Utah ELCP CA00006



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

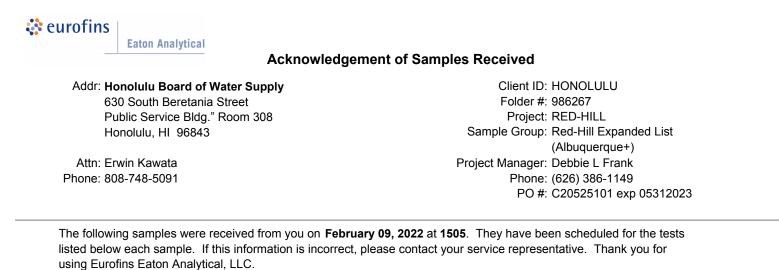
The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA. Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

	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	х	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	х	
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	<u> </u>	
Acrylamide	⁺ LCMS 2440)	Х	
Algal Toxins/Microcystin	+ LCMS 3570	Х	
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	0M 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	⁺ (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	Waste
Test(s)	Method(s)	Water *	Waster
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	x
Norganic Anions and DBPs	EPA 300.1	х	
Kjeldahl Nitrogen	EPA 351.2		Х
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	х	
Nitrate/Nitrite Nitrogen	EPA 353.2	X	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	
	EPA 533, EPA		
Perfluorinated Alkyl Acids	537, EPA 537.1	х	
PPCP and EDC	+ LCMS-2443	х	
рН	EPA 150.1 SM 4500-H+ B	х	x
Phenolics – Low Level	*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)	х	
Radon-222	SM 7500RN	х	
Residue (Filterable)	SM 2540C	х	х
Residue (Non-Filterable)	SM 2540D		х
Residue (Total)	SM 2540B		х
Residue (Volatile)	EPA 160.4		х
Semi-Volatile Compounds	EPA 525.2	х	
Silica	SM 4500-SiO2 C	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 Constituents	SM 5910B	х	
VOCs	EPA 524.2	х	
VOCs	+ (GCMS 2412) by EPA 524.2	x	
	modified		

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.
(+) In-House Method



Sample #	Sample ID			Sample Date
202202090868	HALAWA WELLS 2 (331-024-W	/L064)		02/07/2022 0909
	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	
	TPH 8015 Jef Fuel 8			

Test Description

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<u>م</u>	seurofins .		CHAIN O	HAIN OF CUSTODY RECORD	Mennin 1
		Eaton Analytical	EUROFINS EATON ANALYTICAL USE ONLY.		7 Delex
750 F Monre	Royal Oak	750 Royal Oaks Drive, Suite 100 Monrovia CA 91016-3629	LOGIN COMMENTS:	SAMPLES CHECKED AGAINST COC BY: SAMPLES LOGGED IN BY:	D IN BY:
Phon Fax: (Phone: 626 386 1100 Fax: 626 386 1101	6 1100 101	SAMPLE TEMP RECEIVED AT:	°C (Compliance: 4 ± 2 °C)	ECTION? [] (check for yes)
800 5	666 LABS	800 566 LABS (800 566 5227)	CONDITION OF BLUE ICE: Frozen X Parl	(Compliance: 4 ± 2 °C) ially Mozen Thawed Wet Ice Eade / LIPS / DHI / Area East / Ton Line / Other	No Ice
TO BE CC	NPLETED I	TO BE COMPLETED BY SAMPLER:			(check for yes)
COMPA	COMPANY/AGENCY NAME:	Y NAME:	PROJECT CODE:		
		BWS HONOLULU	RED HILL	- REGULATION INVOLVED: Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA,	/OLVED: (eg. SDWA, Phase V, NPDES, FDA,)
EEA CLI	EEA CLIENT CODE:	:: COC ID:	SAMPLE GROUP:	SEE ATTACHED BOTTLE ORDER FOR ANAL YSES X [check for yes), <u>OR</u> list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	X (check for yes), <u>OR</u> each test for each sample)
TAT requ	uested: rus	TAT requested: rush by adv notice only	STD 1 wk <u>X</u> 3 day 2 day 1 day		
∃J¶MA2 ∃TAQ	ajamaz Time	SAMPLE ID	CLIENT LAB ID MATRIX · FIELD DATA	Red Hill	SAMPLER COMMENTS
02/07/22	OPOP Hala	Halawa Wells P2	HI0000331-024 CFW		
	_				
					Temp Blank:°C
* MAT	RIX TYPE	* MATRIX TYPES: RSW = Raw Surface Water RGW = Raw Ground Water	r CFW = Chlor(am)inated Finished Water r FW = Other Finished Water	SEAW = Sea Water BW = Bottled Water SO = Soil WW = Waste Water SW = Storm Water SL = Sludge	0 = Other - Please Identify
	-	SIGNATURE	PRINT NAME	-	DATE TIME
	BY:	VVC (V)	Lew Bailey		February 7, 2022
-	SHED BY:		Lew Bailey	Honolulu Board of Water Supply	2022
RECEIVED BY:) BY: SHED BY:	Cir Beets	Chur Brech	5 (CDB)	4.72 2021 7614
RECEIVED BY) BY:				
					PAGE 1 OF 1

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Page 1 of 1	Created Date & Time: 1/3/2022 12:06:43AM		Mater Supply la Street 3." Room 308	91	UN DOT #				UN1789						
COUNTY OF ce Manager		lerque+) - er	Billing Address Honoluiu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	Attri: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	Total	Q	3	2	4CL] 3	Sum Bottles: 14					
Kit Order for BOARD OF WATER SUPPLY, CITY AND COUNTY OF Debbie L Frank is your Eurofins Eaton Analytical, LLC Service Manager	pler Please return this paper with your samples	Client ID: HONOLULU Project Code: RED-HILL Bottle Orders Group Name: Red-Hill Expanded List (Albuquerque+) PO#/JOB#: C20525101 exp 05312023 Description: HALAWA WELLS UNITS 1 & 2 - er	Send Report to Honolulu Board of Water Supply 630 South Beretania Street Public Service Bldg." Room 308 Honolulu, HI 96843	Attri: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	Bottle Qty - Type [preservative information]	6 - 1L amber glass [1 ml Thio 8%]	3 - 40ml amber glass vial [1 drop Thio (8%)]	2 - 40ml amber glass vial [1 drop Thio (8%) + H20]	3-40ml amber glass vial [26mg AA+ H20+10 drop -1:1 HCL]	<u></u>		AMBER GLASS BOTTLES FOR TPH 8015 SERIES.	ıts (use extra Container Labels)	samples.	
Kit Order for B Eaton Analytical Debbie L Frar	100 629 8-3757 Note: Sampler P	Kit #: 309378 Kit #: 3002 Kit #:	Ship Sample Kits to Honolulu Board of Water Supply 630 South Beretania Street Chemistry Lab Honolulu, HI 95843	Attr. Kon Fenstemacner Phone: 808-748-5841 Fax: 808-550-5572	Bottle	TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 6 - 1I 8015 Jet Fuel 8_C						SAMPLER: FOUR 1 LITER AMBER GLASS BOTTLES FOR 625 SERIES AND SIX 1 LITER AMBER	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	ASM: Be sure to coordinate Follow-up as needed for any new detections in Field samples. Acetone - follow-ups need to use EPA 624	
والله مر Lurofins Eaton	750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 (626) 386-1100 FAX (866) 988-3757	Kit #: 309378 IIIIIIIII Created By: - [AutoGenerated] Deliver By: 02/02/2022 STG: Bottle Orders Ice Type: G Pre Registered			# of Sample Tests	1 TPH 8015 Diesel and Motor Oi 8015 Jet Fuel 8_C	1 8015 Gas_C	1 @504MOD TB C, 8015 Gas_C TB	4 @VOASDWA C plus-TIGs TBC	Sum Tests: 4 Comments	SITE ID: HALAWA WELLS (331-206-TP065)	SAMPLER: FOUR 1 LITER AMBER GLASS BOT	SHIPPING: Travel Blanks - TBAMTBE, VOASDM Label Cooler on TOP and right below	ASM: Be sure to coordinate Follow-ur Acetone - follow-ups need to use EPA	Page 6

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Code

Date Shinned

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Trackina #

		1	Test	X
1		ults:		
or not. N/A	0	Results:	lonal clients: Bottle # None/<6	TIME ISOS TIME
o sixyis o	hours) c) [Final =	te ()	ID Bottle	S
	hort 8 nir	n Da	Camp Samp	۳ ۲2 ۳
ECO	ection, with <u>c) (confrador</u>	o) (contration) n) Expiration Date	below): ag 40 ml viti	DATE 2.9-2 DATE
Y R Will determin Yes / N		ollection	ce (see additior thods usin imm Te	
TION? Yes / N Partially Frozen	y as sample 2 <u>(observation</u>	4 = (Observations sample col or	DFC for LCMS me ne/<6 >6	rm.e Analytical int.e Analytical
CUS LLLEC' / Oth	ne day <i>e</i>		Samples with Headspace (see below): don Internal COFC for additional bottl ,555, 536, Anatoxin, LCMS methods using 40 mi vi Samp ID Bottla # Nonel<6 >6mm Test mm	оомРАНУТПТЕ Eurofins Ealon Analytical сомРАНУТПТЕ Eurofins Ealon Analytical
OF (EIVED: Muter Fange, 1 Y OF CG (Final Frozen Top Linu	t collection) i ice the sar ilection) ollection)	c) (Final =	Sample. don Inte 556, 536, Samp ID E	
JAL CHAIN OF C SAMPLE TEMP RECEIVED: vote: If samples are out of temperature range, le SAMPLES REC'D DAY OF CO: SAMPLES REC'D DAY OF CO SAMPLES REC'D DAY OF CO: Condition of ICE: Frozen	AP) (if received after 24 hrs of sample collection) ot frozen (can be ≥10°C If received on ice the (if received after 2 hours of sample collection)	In the contract of the contrac	and Ra	
- CH PLE TEN maples are of the maples are of the maple are of the maples are of the	4 hrs of sa C If receiv rs of samp	c) (corr.Factor, frozen (lf r Explre	Tast Tast	ng error
ANAL SAMI SAMF SAMF Corr.FE CONE CONE	after 24 l 2 hours 2 hours	C, not fro	ace: additior 2), 505, SP	tial samplir print name PRINT NAME PRINT NAME
ITER °:	eceived a n (can be ved after <u>cobservation</u>	3 - (Observations /een 0-4 °C, not Lot Number: _ot No.:	nples with Headspac cumentation (use ac ods 515.4, HAA(6251,552), samp ID Bottla # None/56 Samp ID Bottla # mm	potentia
	AP) (If re of frozer (If receiv	e betwee	es with mentatio 515.4, HA p ID Bottli	ace (I.e.
tical servatio X N _v Walk-In	en (NEL, 10°C, n < 10°C < 10°C tre the ture of the	: must b	No Samples with Headspace: ace Documentation (use addi ns: Methods 515.4, HAA(621,652), 505 samp ID Bottle # None/<6 >6 mm	headsp
Eaton Analytical	eria: not froze ution: < Water: then meau	3 TCDD)	A and Radon No Samples with Headspace: Samples with Headspace (see below): Card and Radon Internal COFC for additional bottles) Leadspace Documentation (use additional VOC and Radon Internal COFC for additional bottles) Exempt from headspace concerns: Methods 515.4, HAA(8251,652), 505, 598, 636, Anatoxin, LCMS methods using 40 mi vials, International clients: Samp ID Bottle # Nonel<6 >6m Test Samp ID Bottle # Monel<6 >6m Test Samp ID Bottle # M	lissimilar
Syl Syl	nce Crit), ≤ 6°C, Distribu Surface oth chemist not confirm,	r 2,3,7,8 anufactu sck. Ma	DD >6mm	
Fins "ID=	Accepta stry: >(stry: viology, viology, range for b ature does quadrant a	(1613 c neck. M ine che	VOA and Radon Headspace: Exempt from hea Bottle # None/<6 >6	IDs which his signature signature signature const coc by:
EEA Folder Number EEA Folder Number R Gun ID = 40 (Observatio TYPE OF ICE: Real Synthetic No METHOD OF SHIPMENT: Pick-Up / Walk-In	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 same day as sample collection, within 8 hours) 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection) and temperature ange to both chemistry and Microbiology and temperature does not confirm, then measure the trout of temperature does not confirm, then measure the constraints of the constraints of the content of the constraints of the content of the content of the constraints of the content of the content of the constraints of the content of the constraints of the content of the	4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (If received after 24 hrs of sample collection) 5) pH Check. Manufacturer: Lot Number: Lot Number: FM strip type: 0 - 14 or E 6) Chlorine check. Manufacturer: Sansafe. Lot No.: Expiration Date: Results	Hee Hee	Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): RECEIVED THE BIONATURE BIONATURE PRIVILAME PRIVILAME PRIVILAME PRIVILAME PRIVILAME
TYPE	Compl 1) 2) 3) 11 out of te semples a temperatu		7) Samp ID	Note S Received

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Test

QA FO-FRM5504 (9.28.21) Ver 9

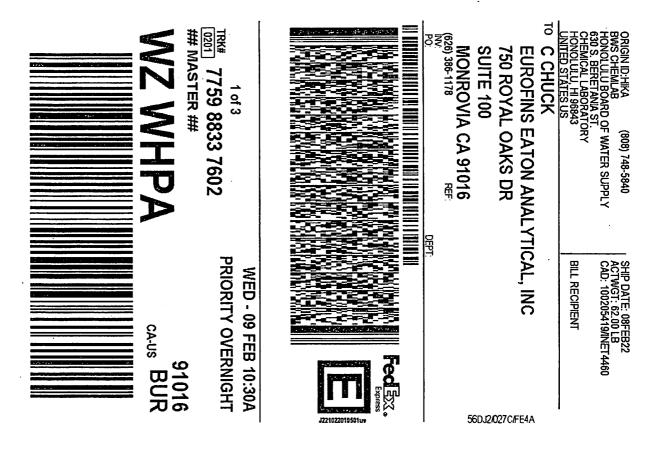
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ද්දී eurofins Eaton Analytical	INTERNAL CHAIN OF CUSTODY RECORD	
EEA Folder Number: WANG	SAMPLE TEMP RECEIVED: Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not. SAMPLES REC'D DAY OF COLLECTION? Yes / No	
IR Gun ID = $\frac{UO}{(O)}$ (Observe	(Observation= 6 , 1 , °C) (Corr.Factor -0.2 , °C) (Final = 5.2 , °C)	
TYPE OF ICE: Real Synthetic		
METHOD OF SHIPMENT: Pick-Up / Walk	METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other:	
Compliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not frozen (Ni	npliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)	
2) Microbiology, Distribution: < 10°C	2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	
3) Microbiology, Surface Water: < 10°C	°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	1 = (Observation=	
4 Dioxin (1613 or 2.3.7.8 TCDD): must b	le between 0-4 °C, not frozen (if received after 24 hrs of sample collection)	
	I of Number: D - 14 or Expiration Date	
 6) pri citeor, manuacutat. 6) Chlorine check. Manufacturer: Sansafe. Lot No.: 	Expiration Date: Results	
7) VOA and Radon No Sam 7) Headspace:	No Samples with Headspace: Samples with Headspace (see below):	2
HeadSpace Uo Exempt from headspace concerns: Meth Samp ID Bottle # None/<6 >6mm Test	HeadSpace Documentation (use autimonial YOC and Yacus) international clients: Exempt from headspace concerns: Methods 515.4, HAA(6251,505, SPME, @CH, 532LCMS, 556, 536, Anatorin, LCMS methods using 40 mi vials, International clients: [e # None/<6 >6mm Test Samp ID Bottle # None/<6 >6mm Test Samp ID Bottle # mm Test Samp	mm Test
Note Sample IDs which have dissimilar heads	Jspace (i.e. potential sampling errors):	1
	PRINT NAME COMPANYITITLE DATE TIME	
RECEIVED BY: A ROL A	Cw Brcel Eurofins Eaton Analytical 2.9.22 1501	·
signature	PRINT NAME COMPANYITILE DATE TIME	
SAMPLES CHECKED AGAINST COC BY:	Eurofins Eaton Analytical	

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Page ____ of ____



After printing this label:

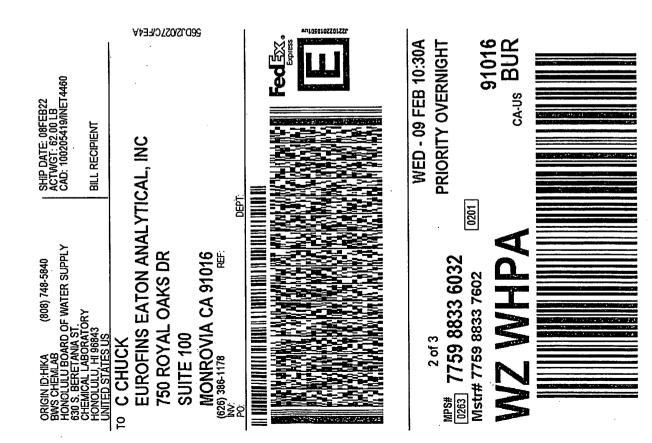
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2. Fold the printed page along the horizontal line.

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Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 986267 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 Laboratories



Eaton Analytical

Tel: (626) 386-1100 Fax: (866) 988-3757 1 800 566 LABS (1 800 566 5227) Report: 986267 Project: RED-HILL Group: Red-Hill Expanded List (Albuquerque+)

Er 63 Pt	onolulu Board of Wa win Kawata 30 South Beretania S ublic Service Bldg." F onolulu, HI 96843	treet			Samples Rec 02/09/2022 1		
Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL	

SUMMARY OF POSITIVE DATA ONLY

Rounding on totals after summation. (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight

differences in final result than the component analyses



Report: 986267 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

1 800 566 LABS (1 800 566 5227)

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
HALAW	A WELLS 2	(331-024-WI	_064) (202202090	<u>)868)</u>		Sam	pled on 02/07/	2022 090	9
		SW 8015B	- (SUB)Gas Frac	tion Hydroca	rbons				
02/10/22	02/10/22 19:37			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Diese	el and Motor	Oil				
02/10/22	02/14/22 16:19			(SW 8015B)	TPH Diesel	ND	mg/L	0.025	1
02/10/22	02/14/22 16:19			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.051	1
		EPA 8015 -	Jet Fuel 5 C8-C	18					
02/10/22	02/14/22 16:19			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.051	1
		EPA 8015 -	Jet Fuel 8 C8-C	18					
	02/14/22 16:19			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.051	1

02/09/2022 1505

Samples Received on:

🛟 eurofins

Tel: (626) 386-1100

Fax: (866) 988-3757

Eaton Analytical



ABORATORIES, INC.

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

Date: 02-17-2022 EMAX Batch No.: 22B106

Attn: Jackie Contreras

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

Subject: Laboratory Report Project: 986267

Enclosed is the Laboratory report for samples received on 02/10/22. The data reported relate only to samples listed below :

Sample ID	Control # Col Date	Matrix	Analysis
202202090868	B106-01 02/07/22	WATER	TPH TPH GASOLINE

The results are summarized on the following pages.

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

Sincerel yburs,

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

L_			Submittal Form	Form 228106 Date: 2/10/2022	2
	😴 eurotins	Eaton Analytical	*REPORTING REQUIRMENTS: Do Not Combine Reports wi Report & Invoice must have the Folder# 986267 Job # 100001	RMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers/ have the Folder# 986267 Job#1000014	
	Shin To		<u>Report all quality control data according to Method. Include dates analyzed</u> Results must have Complete data & QC with Approval Signature.	<u>Date extracted (if extracted) an</u>	I
	Sup to. `EMAX Laboratories, Inc. 3051 Fujita St.	atories, Inc.	Reports: Jackie Contreras Sub-Contracting Administrator EMAIL TO: Eaton-MonrovisSubContract@eurofinset.com Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016	4 28 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4	
	Torrance, CA 90505	90505	Phone (626) 386-1165 Fax (626) 386-1122 Invoices to: Eurofins Eaton Analytical LLC Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605	386-1122 Writeki, LLC Lancaster, PA: 17605	
	Phone: 310-618-8889	-8889 Fax: 310-618-0818	2-3 day rush RED Hill		
1	Folder #: 986267 (Report Due: 02/14/2022			
	Sample ID 202202090868	Client Sample ID for reference on HALAWA WELLS 2 (331-024-WL064)	ence on! Sample Date & 02/07/22 02/07/22	& Time Matrix Clip Code PWSID 2 0909 DW JLS	
	Sample type:	Sample Event:	Facility ID:	Sample Point ID:	
-	Method	pot	Analysis Requested		I
	SW 8015B				
	SW 8015B EPA 8015 EPA 8015	EPA 3550B TPH EPA 8015 Jet I Jet I	TPH 8015 Diesel and Motor Oil Jet Fuel 5 C8-C18 Jet Fuel 8 C8-C18		
		5			
F	Relinguished by	X Sample Control	Date 2/10/ Time 21	NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS	
Page	Received by		Date Time	An Acknowledgement of Receipt is requested to attn. Jackie Contreras ດໍາ	
17 c	Relinguished by:	Sample Control	_ Time	0 0 0 town	
of 49	Received by	lavai min	Date 2/10/22 Time 12:1)		
pages		2B106 ⁷⁵⁰ Royal Oaks Drive, Su	Page 1 of 5 REPORT ID: 22B106 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (86	Fax (866) 988-3757 www.EurofinsUS.com/Eaton Page 2 of 34	

SAMPLE RECEIPT FORM 1

Reference: Addendum SM02.11.1 Form: SM02F1

Type of Delivery			Airbill / Track	ing Number	ECN 22B106			
□ Fedex □ UPS □ GSO □ Others					Recipient Maria Kivera			
EMAX Courier 😡 Client Deli	very				Date 02/10/22	Time 12.11		
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)	TAT		
Safety Issues (if any)	☐ High concentrations expe	ected	□ From Superfund Site	Rad screening required	· · · · · · · · · · · · · · · · · · ·			
Note:			1	о ,				
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PACKAGING INSPECTIO			· · · · · · · · · · · · · · · · · · ·					
C	Cooler		Box	□ Other		· · · · · · · · · · · · · · · · · · ·		
Condition Condition	Custody Seal		□ Intact		· · · · · · · · · · · · · · · · · · ·			
Packaning Factor'	N Bubble Pack		□ Styrofoam	Popcorn -	Sufficient			
-0.5	Cooler 1 $\frac{3.8}{3.3}_{\rm C}$		ler 2 5.2/4.7C	\Box Cooler 3°C		□ □ Cooler 5°C		
Temperatures (Cool, ≤6 °C but not frozen)			ler 7 $^{\circ}C$	□ Cooler 9 ℃	. □ Cooler 4 °C .□ Cooler 9 °C	\Box Cooler 10°C		
Thermometer:	□ Cooler 6 ⁰ C A - S/N: <u>210191066</u> ~ 14	1	B-S/N 210271396	C-S/N 210271399	D - S/N			
Comments: 🗖 Temperature is ou	it of range. PM was informe	7 '74 d IMM	EDIATELY.					
Note:	· · · · · · · · · · · · · · · · · · ·			·····				
DISCREPANCIES								
LabSampleID	LabSampleContainerID	Code	ClientSample La	abel ID / Information	Corrective	Action		
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□ pH holding time requirement	t for water samples is 15 mi	ns. Wa	iter samples for pH analy	sis are received beyond 15 n	ninutes from sampling time.	132 11/2		
NOTES/OBSERVATIONS:								
······		······						
				· · · · · · · · · · · · · · · · · · ·				
LEGEND:					Continue to next page	ge.		
Code Description-Sample Man	agement		Description-Sample Mana	agement	Code Description-Sample Mana	•		
D1 Analysis is not indicated in	genture and a second		Out of Holding Time		R1 Proceed as indicated in CO	C 🗆 Label		
D2 Analysis mismatch COC vs		D14	Bubble is >6mm		R2 Refer to attached instruction			
D3 Sample ID mismatch COC	vs label	D15 1	No trip blank in cooler		R3 Cancel the analysis			
D4 Sample ID is not indicated i	in		Preservation not indicated i		R4 Use vial with smallest bubble i	first		
D5 Container -[improper] [leak	ting] [broken]	D17]	Preservation mismatch CO	C vs label	R5 Log-in with latest sampling dat	te and time+1 min		
D6 Date/Time is not indicated	in	D18	nsufficient chemical preser	rvative	R6 Adjust pH as necessary	$1 \cap 1$		
D7 Date/Time mismatch COC	vs label	D19 I	nsufficient Sample		R7 Filter and preserved as necessa	80 Vin. Ve		
D8 Sample listed in COC is not		D20 1	No filtration info for dissolv	ved analysis	R8	in many		
D9 Sample received is not liste	d in COC		No sample for moisture determ		R9			
D10 No initial/date on correction	1		Jet Fuel 8 analy	sis not indicated	R10V	an		
D11 Container count mismatch (· · · · ·	D23_		on label	R11			
D12 Container size mismatch CO		D24_		1 1-	R12	~~~		
REVIEWS:	Maria I Jocelyne	•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Newster		ML		
Sample Labeling		9	SRF		PM			
Date	02/10/22 02 10/22		Date	02/10/22	Date	- KIUIU		

Pageage of 3449 pages

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.
Ν		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

986267

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

SDG#: 22B106

REPORT ID: 22B106

Pagea de 20 3449 pages

Client : EUROFINS EATON ANALYTICAL

Project: 986267

SDG : 22B106

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

One(1) water sample was received on 02/10/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/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. VG39B07B - 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. VG39B07L/VG39B07C 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 B109-01M/B109-01S. 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

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.

	AND TRAP
	PURGE
	BY
LAB CHRONICLE	HYDROCARBONS
	PETROLEUM
	TOTAL

Client : EU Project : 98	: EUROFINS EATON ANALYTICAL : 986267							SDG NO. Instrument	SDG NO. : 22B106 Instrument ID : GCT039
				WATER	TER				
Client	Laboratory	aboratory Dilution-	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
Sample ID	Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch N	Notes
		* * * *						8 8 8 8 9 8 9 8 9 9 9 9 9 9	
MBLK1W	VG39B07B	-	NA	02/10/2217:47	02/10/2217:47	EB10005A	EB10003A	22VG39B07 M	22VG39B07 Method Blank
LCS1W	VG39B07L	-	NA	02/10/2218:24	02/10/2218:24	EB10006A	EB10003A	22VG39B07 L	22VG39B07 Lab Control Sample (LCS)
LCD1W	VG39B07C	-	NA	02/10/2219:01	02/10/2219:01	EB10007A	EB10003A	22VG39B07 L	22VG39B07 LCS Duplicate
202202090868	B106-01	-	NA	02/10/2219:37	02/10/2219:37	EB10008A	EB10003A	22VG39B07 F	22VG39B07 Field Sample

FN - Filename % Moist - Percent Moisture

.

SAMPLE RESULTS

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

=======================================				
Client : EUROFINS EATOM	ANALYTICAL	Date	Collected:	02/07/22 09:09
Project : 986267		Date	e Received:	02/10/22
Batch No. : 22B106		Date	Extracted:	02/10/22 19:37
Sample ID : 202202090868		Date	e Analyzed:	02/10/22 19:37
Lab Samp ID: B106-01		Diluti	ion Factor:	1
Lab File ID: EB10008A	WATER			
Ext Btch ID: 22VG39B07		2	6 Moisture:	NA
Calib. Ref.: EB10003A		Inst	rument 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	0.0327	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 : 5mlFinal Volume : 5mlPrepared by : SCervaAnalyzed by : SCerva

.

QC SUMMARIES

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

Client : EUROFINS EATO	ANALYTICAL	Date	Collected:	02/10/22 17:47
Project : 986267			e Received:	
Batch No. : 22B106		Date	Extracted:	02/10/22 17:47
Sample ID : MBLK1W		Date	e Analyzed:	02/10/22 17:47
Lab Samp ID: VG39B07B		Dilut	ion Factor:	1
Lab File ID: EB10005A			Matrix:	WATER
Ext Btch ID: 22VG39B07			% Moisture:	NA
Calib. Ref.: EB10003A		Ins	trument 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	0.0328	v.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

Bromofluorobenzena	9	0.0400	0.0445	111	0.0400	0.0431	108		70-130	
SURROGATE PARAMET	ĒR	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Gasoline	ND	0.500	0.573	115	0.500	0.540	108	6	60-130	30
PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikcAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
ACCESSION:										
	2VG39B07		22VG39B07 EB10003A			22VG39B07 EB10003A				
)2/10/22 17:47)2/10/22 17:47		02/10/22 1 02/10/22 1			02/10/22 1				
LAB FILE ID : E	B10005A		EB10006A			EB10007A				
	1BLK1W /G39B07B		LCS1W VG39B07L			LCD1W VG39B07C				
DILUTION FACTOR: 1			1			% MOISTURE	INA			
						* MOLOTUDE	- 114			
	22B106 6030B/8015B			u nime ward hand hand have have been						
	UROFINS EATON ANA 986267	ALYTICAL							•	

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

.

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 986280
BATCH NO.	: 22B109
METHOD	: 5030B/8015B

MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : 2022020 LAB SAMPLE ID : B109-07 LAB FILE ID : EB10012 DATE PREPARED : 02/10/2 DATE ANALYZED : 02/10/2 PREP BATCH : 22VG39E CALIBRATION REF: EB10003	1 2A 22 22:03 22 22:03 307		1 2022020908 B109-01M EB10013A 02/10/22 2: 02/10/22 2: 22VG39B07 EB10003A	2:40		% MOISTURE 1 2022020908 B109-01S EB10014A 02/10/22 2 22VG39B07 EB10003A	90MSD			
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	0.548	110	0.500	0.537	107	2	50-130	30
		=======	=======================================							
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0435	109	0.0400	0.0437	109		60-140	

.

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

986267

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22B106

Client : EUROFINS EATON ANALYTICAL

Project: 986267

SDG : 22B106

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/10/22 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. DSB014WB - 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 DSB014WL. 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. Diesel was within MS QC limits in 22B109-01M/22B109-01S. 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: 986267

SDG : 22B106

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/10/22 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. DSB014WB - 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 J5B014WL. 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 22B109-01M/22B109-01S. Refer to Matrix QC summary form for details.

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

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

REPORT ID: 22B106

Client : EUROFINS EATON ANALYTICAL

Project: 986267

SDG : 22B106

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 02/10/22 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. DSB014WB - 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 J8B014WL. 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 22B109-01M/22B109-01S. 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.

	EXTRACTION
	ВҮ
LAB CHRONICLE	UM HYDROCARBONS BY
	PETROLEUM
	TOTAL

986267 986267 Laboratory Dilution % Analysis Extraction Sample ID Factor Moist DateTime DateTime Sample ID Factor Moist DateTime 02/14/2215:05 DSB014WE 1 NA 02/14/2215:05 02/10/2215:30 DSB014WE 1 NA 02/14/2216:00 02/10/2215:30			
ID MATER Laboratory Dilution % Analysis Extraction Laboratory Dilution % Analysis Extraction Sample ID Factor Moist DateTime DateTime Sample ID Factor Moist DateTime Interval Sample ID Factor Moist DateTime Interval Sample ID I NA 02/14/2215:05 02/10/2215:30 DateDate DateTate DateTate DateTate DateTate			nt ID
WATERLaboratory Dilution%AnalysisExtractionSample IDFactorSample IDFactorFactorMoistDateTime02/14/2215:05DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1NA02/14/2216:00DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB014WE1DSB01			
ID Laboratory Dilution % Analysis Extraction ID Sample ID Factor Moist DateTime DateTime DateTime DateTime	WATER		
ID Sample ID Factor Moist DateTime	Extraction		Calibration Prep.
DSB014WL 1 NA 02/14/2215:05 02/10/2215:30 DSB014WB 1 NA 02/14/2216:00 02/10/2215:30 DS8014WB 1 NA 02/14/2216:00 02/10/2215:30	DateTime	-	Jata FN Batch Notes
DSB014WL 1 NA 02/14/2215:05 02/10/2215:30 DSB014WB 1 NA 02/14/2216:00 02/10/2215:30			
DSB014WB 1 NA 02/14/2216:00 02/10/2215:30	02/10/2215:30		LB14003A 22DSB014W Lab Control Sample (LCS)
02/10/2015/11/2017/10 00/11/2015/10 00/10/2015/30	02/10/2215:30		_B14003A 22DSB014W Method Blank
nc: r1 77 /n1 /7n	02/14/2216:19 02/10/2215:30	LB14014A LB14	LB14003A 22DSB014W Field Sample

FN - Filename % Moist - Percent Moisture ;

	EXTRACTION
끰	BY
LAB CHRONICLE	HYDROCARBONS BY
	PETROLEUM

client	liant ····································	ANA! YTTCA!							SDG NO. : 22B106	: 22B106
Project									Instrument ID : D5	: D5
					WATER	ER				
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	
						3 3 3 1 1 1 1 1 1 1 1	8 8 8		* * * * * * * * * * * * *	
LCS1W		J5B014WL	1	NA	02/14/2215:23	02/10/2215:30	LB14011A	LB14004A	22DSB014W Lab Co	22DSB014W Lab Control Sample (LCS)
MBLK1W		DSB014WB	-	NA	02/14/2216:00	02/10/2215:30	LB14013A	LB14004A	22DSB014W Method Blank	Blank
202202090868	1868	B106-01	-	NA	02/14/2216:19	02/10/2215:30	LB14014A	LB14004A	22DSB014W Field Sample	sample

FN - Filename % Moist - Percent Moisture

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	EXTRACTION
ССЕ	BΥ
LAB CHRONICLE	HYDROCARBONS BY
	PETROLEUM

Client	Client : EUROFINS EATON ANALYTICAL	ANALYTICAL							SDG NO. : 22B106	
Project	Project : 986267								Instrument ID : D5	
					WATER	ER				
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	1 Prep.	
Sample ID		Sample ID	Factor	Moist	DateTīme	DateTime	Data FN	Data FN	Batch Notes	
				1 1 1 1	*		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			
LCS1W		J8B014WL	-	NA	02/14/2215:42	02/10/2215:30	LB14012A	LB14005A	22DSB014W Lab Control Sample (LCS)	(SCCS)
MBLK1W		DSB014WB	-	NA	02/14/2216:00	02/10/2215:30	LB14013A	LB14005A	22DSB014W Method Blank	
202202090868	368	B106-01	-	NA	02/14/2216:19	02/10/2215:30	LB14014A	LB14005A	22DSB014W Field Sample	

FN - Filename % Moist - Percent Moisture

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Page 35 of 49 pages

SAMPLE RESULTS

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Client : EL	JROFINS EATON	ANALYTICAL	Date	Collected:	02/07/22 0	9:09
Project : 98	86267		Date	e Received:	02/10/22	
Batch No. : 22	2B106		Date	Extracted:	02/10/22 1	15:30
Sample ID : 20	02202090868		Date	Analyzed:	02/14/22 1	6:19
Lab Samp ID: 22			Diluti	on Factor:	1	
Lab File ID: LB	314014A			Matrix:	WATER	
Ext Btch ID: 22				6 Moisture:		
Calib. Ref.: LB	31400 3 A		Inst	rument ID:	D5	
time and bar had bee too too too box had bee too too too too box and too too		========================				====
			D.	ND (
DADAMETERO		RESULTS		MDL		
PARAMETERS		(mg/L)	(mg/L)	(mg/l)		
Diesel		ND	0 025	0.013	-	
Motor Oil		ND	0.051			
		110	01031	01023		
SURROGATE PARAM	METERS	RESULT	SPK_AMT	%RECOVERY	QC LIMI	Т
Bromobenzene		0.451	0.505	89	60-130)
Hexacosane		0.117	0.126	93	60-130)
						====
Notes:						
Parameter	ų, s					
	C10-C24					
Motor Oil	C24-C36					

Detection limits are reported relative to sample result significant figures.Sample Amount : 990mlFinal Volume : 5mlPrepared by : JMuertAnalyzed by : SDeeso

Reported ND at RL quantitated per pattern recognition.

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Client : EUROFINS EATO	N ANALYTICAL			02/07/22 09:09
Project : 986267			e Received:	
Batch No. : 22B106				02/10/22 15:30
Sample ID : 202202090868			,	02/14/22 16:19
Lab Samp ID: 22B106-01		Diluti	ion Factor:	-
Lab File ID: LB14014A			Matrix:	
Ext Btch ID: 22DSB014W		2	% Moisture:	NA
Calib. Ref.: LB14004A		Inst	trument ID:	D5
		=========	=============	
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)			
				-
JP5	ND	0.051	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.451	0.505	89	60-130
Hexacosane	0.117	0.126	93	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 : 990mlFinal Volume : 5mlPrepared by : JMuertAnalyzed by : SDeeso

Client : EUROFINS EATO	ANALYTICAL	Date	Collected:	02/07/22 09:09
Project : 986267		Date	e Received:	02/10/22
Batch No. : 22B106		Date	Extracted:	02/10/22 15:30
Sample ID : 202202090868		Date	Analyzed:	02/14/22 16:19
Lab Samp ID: 22B106-01		Diluti	ion Factor:	1
Lab File ID: LB14014A			Matrix:	WATER
Ext Btch ID: 22DSB014W		2	6 Moisture:	NA
Calib. Ref.: LB14005A		Inst	rument ID:	D5
=======================================		===========	=======================================	========================
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
-				-
JP8	ND	0.051	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.451	0,505	89	60-130
Hexacosane	0.117	0.126	93	
		=======================================		=======================================

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 : 990ml Final Volume : 5ml Prepared by : JMuert Analyzed by : SDeeso .

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QC SUMMARIES

Page 205e of 3449 pages

Client : EUROFINS EAT		========: Doto	Collected	02/10/22 15:30
Project : 986267	UN ANALTTICAL		e Received:	
Batch No. : 22B106				02/10/22 15:30
Sample ID : MBLK1W				02/14/22 16:00
Lab Samp ID: DSB014WB			ion Factor:	
Lab File ID: LB14013A		bitut	Matrix:	-
Ext Btch ID: 22DSB014W		5	% Moisture:	
Calib. Ref.: LB14003A			trument ID:	
			=======================================	<u></u>
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
Diesel	ND	0.025	0.012	-
Motor Oil	ND	0.050	0.025	
			01025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.386	0.500	77	60-130
Hexacosane	0.0970	0,125	78	60-130
	==================			
Notes:				

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36
Reported ND	at RL quantitated per pattern recognition.

Detection limit	s are reported relative	to sample result significant figures.
Sample Amount	: 1000ml	Final Volume : 5ml
Prepared by	: JMuert	Analyzed by : SDeeso

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PROJECT BATCH NO.	::	986267	EATON AN/ 15B	ALYTICAL			
MATRIX DILUTION FACTO SAMPLE ID LAB SAMPLE ID DATE PREPARED DATE ANALYZED PREP BATCH CALIBRATION RE	R :: : : : : :	1 MBLK1W DSB014WB LB14013A 02/10/22 02/14/22 22DSB014	15:30 16:00 W	02/14/22 22DSB014	15:30 15:05 W		
ACCESSION:					LCSResult (mg/L)		
Diesel			ND			97	

 SpikeAmt
 LCSResult
 LCSRec
 QCLimit

 (mg/L)
 (mg/L)
 (%)
 (%)

 0.500
 0.477
 95
 60-130

 0.125
 0.126
 101
 60-130
 SURROGATE PARAMETERS -----Bromobenzene 0.125 0.126 101 60-130 Hexacosane

MB: Method Blank sample LCS: Lab Control Sample

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PROJECT : 9 BATCH NO. : 2	UROFINS EATON AN/ 286280 228109 5520C/80158	ALYTICAL								
DILUTION FACTOR: 1 SAMPLE ID : 2 LAB SAMPLE ID : 2 LAB FILE ID : 1 DATE PREPARED : 0 DATE ANALYZED : 0	202202090890 22B109-01 .B14017A 02/10/22 15:30 02/14/22 17:14 22DSB014W	22E LB1 02/ 02/ 22E	2202090890MS 109-01M 4018A 10/22 15:30 14/22 17:32 SB014W 4003A			1 2022 2281 LB14 02/1 02/1 2205	DISTURE:NA 202090890M 109-015 6019A 10/22 15:3 14/22 17:5 58014W 6003A	ISD 60		
ACCESSION:										
PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)		MSDResult (mg/L)	(%)		QCLimit (%)	MaxRPD (%)
Diesel	ND	2.65	2.95	111	2.60	2.82	108	5	50-130	30
=======================================				=======						
SURROGATE PARAMETE	RS	SpikeAmt (mg/L)	MSResult (mg/L)	(%)	SpikeAmt (mg/L)	MSDResult (mg/L)			QCLimit (%)	
Bromobenzene Hexacosane		0.530 0.132	0.524 0.125		0.520 0.130	0.480 0.120	92 92		60-130 60-130	-
				=======				========		

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

		===========	=================	
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	02/10/22 15:30
Project : 986267		Date	e Received:	02/10/22
Batch No. : 22B106		Date	Extracted:	02/10/22 15:30
Sample ID : MBLK1W		Date	e Analyzed:	02/14/22 16:00
Lab Samp ID: DSB014WB		Dilut	ion Factor:	1
Lab File ID: LB14013A			Matrix:	WATER
Ext Btch ID: 22DSB014W			% Moisture:	NA
Calib. Ref.: LB14004A		Inst	trument ID:	D5
***************************************		=================	================	
			145.1	
DADAMETERS	RESULTS			
PARAMETERS	(mg/L)	(mg/l)	(mg/l)	
JP5	ND	0.050	0.025	-
JF J	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.386	0.500	77	60 · 1 3 0
Hexacosane	0.0970	0.125	78	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

PROJECT : 986 BATCH NO. : 22B	106 Ос/8015в	LYTICAL			
MATRIX : WAT DILUTION FACTOR: 1 SAMPLE ID : MBL LAB SAMPLE ID : DSB LAB FILE ID : LB1 DATE PREPARED : 02/ DATE ANALYZED : 02/ PREP BATCH : 22D CALIBRATION REF: LB1	K1W D14wB 4013A 10/22 15:30 14/22 16:00 SB014w	LB14011A 02/10/22	15:30 15:23		
ACCESSION:					
PARAMETERS			LCSResult (mg/L)		
JP5	ND	2.50	1.99	80	30-160
		=========		========	
SURROGATE PARAMETERS			LCSResult (mg/L)	(%)	QCLimit (%)
Bromobenzene Hexacosane			0.510 0.123	102	
=======================================					

MB: Method Blank sample LCS: Lab Control Sample

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PROJECT : 9862 BATCH NO. : 22B1	09 C/8015B	LYTICAL								
MATRIX : WATE DILUTION FACTOR: 1 SAMPLE ID : 2022 LAB SAMPLE ID : 22B1 LAB FILE ID : LB14 DATE PREPARED : 02/1 DATE ANALYZED : 02/1 PREP BATCH : 22DS CALIBRATION REF: LB14	02090890 09-01 017A 0/22 15:30 4/22 17:14 B014W	228 LB1 02/ 02/ 22D	202090890MS 109-01M 4020A 10/22 15:30 14/22 18:09 SB014W 4004A			1 2022 22B1 LB14 02/1 02/1 22DS	DISTURE:NA 202090890M 109-015 6021A 0/22 15:3 4/22 18:2 58014W 6004A	ISD 0		
ACCESSION:										
PARAMETERS	PSResult (mg/L)		MSResult (mg/L)	MSRec (%)		MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.62	2.25	86	2.62	1.85	70	20	30-160	30
SURROGATE PARAMETERS		SpikeAmt (mg/L)	MSResult (mg/L)	(%)	SpikeAmt (mg/L)	MSDResult (mg/L)		========	QCLimit (%)	d tail and an ion ion ion ion ion
Bromobenzene Hexacosane		0.525 0.131		106 82	0.525 0.131	0.476 0.111			60-130 60-130	

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

			=======================================		===
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	02/10/22 15	:30
Project : 986267		Date	e Received:	02/10/22	
Batch No. : 22B106		Date	Extracted:	02/10/22 15	:30
Sample ID : MBLK1W		Date	Analyzed:	02/14/22 16	:00
Lab Samp ID: DSB014WB		Dilut	ion Factor:	1	
Lab File ID: LB14013A			Matrix:	WATER	
Ext Btch ID: 22DSB014W			% Moisture:	NA	
Calib. Ref.: LB14005A		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	0.386	0 500	77	60-130	
Hexacosane			78		
	===================				

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

PROJECT BATCH NO. METHOD	22B106							
MATRIX DILUTION FACTOR SAMPLE ID LAB SAMPLE ID LAB FILE ID DATE PREPARED DATE ANALYZED PREP BATCH	: WATER	% MOISTUR 1 LCS1W J8B014WL LB14012A 02/10/22 02/14/22 22DSB014W	8E:NA					
ACCESSION:								
PARAMETERS	MBResul (mg/L	t SpikeAmt) (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)			
JP8		D 2.50						
SURROGATE PARAM	ETERS	SpikeAmt		LCSRec	QCLimit			
Bromobenzene Hexacosane		0.500	0.461 0.114	92	60-130			

MB: Method Blank sample LCS: Lab Control Sample

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CLIENT PROJECT BATCH NO. METHOD	: EUROFINS EATON ANALY : 986280 : 228109 : 3520C/8015B	TICAL		
MATRIX				
MATRIX	: WATER		% MOISTURE:NA	
DILUTION FACTO	OR: 1	1	1	
SAMPLE ID	: 202202090890	202202090890MS	202202090890MSD	
LAB SAMPLE ID	: 22B109-01	22B109-01M	22B109-01S	
LAB FILE ID	: LB14017A	LB14022A	LB14023A	
DATE PREPARED	: 02/10/22 15:30	02/10/22 15:30	02/10/22 15:30	
DATE ANALYZED	: 02/14/22 17:14	02/14/22 18:46	02/14/22 19:04	
PREP BATCH	: 22DSB014W	22DSB014W	22DSB014W	
CALIBRATION RE	EF: LB14005A	LB14005A	LB14005A	

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikcAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.65	1.95	74	2.62	2.16	82	10	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	0.558 0.130	105 98	0.525 0.131	0.525 0.115	100 88		60-130 60-130	

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