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

Date of Issue 02/09/2022

DEB: Debbie L Frank

Project Manager

Report: 980670 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.

Utah ELCP CA00006 ue+)

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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: n

https://	www.e	urofins	us.com	h/Eaton

	1		www.eu
Test(s)	Method(s)	Potable	Waste
		Water *	Water
Enterococci	Enterolert	Х	Х
Escherichia coli	SM 9221 B.1	х	
(Enumeration)	SM 9221 F SM 9221 C		
Fecal Coliform (P/A and	(MTF/EC), SM 9221	х	x
Enumeration)	E (MTF/EC)		
Fecal Streptococci and	SM 9230 B	х	x
Enterococci			
Heterotrophic Bacteria	SM 9215 B	X	
Legionella	Legiolert® Idexx	Х	
Pseudomonas aeruginosa	Pseudalert	х	
Total Coliform (P/A and			
Enumeration)	SM 9221A, SM 9221B, SM 9221 C	х	х
Total Coliform. Total			
Coliform with Chlorine	014 000 / D	х	x
Present	SM 9221 B		
Total Coliform/E. coli (P/A and			
Enumeration, Idexx Colilert,	SM 9223	х	
Idexx Colilert 18, Colisure) Total Microcystins and			
Nodularins	EPA 546	Х	
Yeast and Mold	SM 9610	х	
1,2,3-Trichloropropane	CA SRL 524M-	х	
(TCP) at 5 PPT	TCP		
1,4-Dioxane	EPA 522	X	
2,3,7,8-TCDD	Modified EPA	х	
	1613 B		
Acrylamide	+ LCMS 2440)	X	
Algal Toxins/Microcystin	+ LCMS 3570	X	
Alkalinity	SM 2320B	X	Х
A mana a min	EPA 350.1,		
Ammonia	SM 4500-NH3 H		х
Asbestos	EPA 100.2	×	×
Bicarbonate Alkalinity as	SM 2330 B	X	Х
HCO3	SIVI 2330 D	х	x
BOD/CBOD	SM 5210 B		х
Bromate	+LCMS- 2447	X	^
Carbonate as CO3	SM 2330 B	x	х
Carbonyls	EPA 556	x	X
	EPA 410.4,	~	
Chemical Oxygen Demand	SM 5220D		х
Chlorinated Acids	EPA 515.4	х	
	Palin Test		
Chloring Diswide	Chlordio X Plus,		
Chlorine Dioxide	SM 4500-CLO2	х	
	D		
Chlorine, Free, Combined,	SM 4500-CI G		
Total Residual,	01014000-010	х	
Chloramines			
Color	SM2120B	Х	
Conductivity	EPA 120.1,	x	x
-	SM 2510B		
Corrosivity (Langelier			
Index), Carbonate as CO3, Hydroxide as OH	SM 2330 B	х	
Calculated			
	SM 4500-CN		
Cyanide (Amenable)	G	х	х
Cyanide (Free)	SM 4500CN F	х	х
Cyanide (Total)	EPA 335.4	X	X
Cyanogen Chloride	+ 335 Mod		~
(Screen)	(WC-24467)	х	
Diquat and Paraquat	EPA 549.2	х	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	X	
Dissolved Oxygen	SM 4500-O G		х
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and			
Disinfection Byproducts	EPA 551.1	х	
EDTA and NTA	⁺ WC-2454	х	
Endothall	EPA 548.1,	х	
Endoundli	+(LCMS-2445)	Χ	
Fluoride	SM 4500F C	х	Х
Glyphosate	EPA 547	х	
Glyphosate and AMPA	+ LCMS-3618	х	
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	⁺ 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	⁺ (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 Client ID: HONOLULU 630 South Beretania Street Folder #: 980670 Public Service Bldg." Room 308 Project: RED-HILL Honolulu, HI 96843 Sample Group: Red-Hill Expanded List (Albuquerque+) Attn: Erwin Kawata Project Manager: Debbie L Frank Phone: 808-748-5091 Phone: (626) 386-1149 PO #: C20525101 exp 05312023 Pot expression of this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC. Sample # Sample ID	🔅 eurofin	IS Eaton Analytical	
630 South Beretania Street Folder #: 980670 Public Service Bldg." Room 308 Project: RED-HILL Honolulu, HI 96843 Sample Group: Red-Hill Expanded List (Albuquerque+) Attn: Erwin Kawata Project Manager: Debbie L Frank Phone: 808-748-5091 Phone: (626) 386-1149 PO #: C20525101 exp 05312023 The following samples were received from you on January 14, 2022 at 1633. 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. ample # Sample ID Sample Date			ent of Samples Received
Public Service Bldg." Room 308 Project: RED-HILL Honolulu, HI 96843 Sample Group: Red-Hill Expanded List (Albuquerque+) Attn: Erwin Kawata Project Manager: Debbie L Frank Phone: 808-748-5091 Phone: (626) 386-1149 PO #: C20525101 exp 05312023 The following samples were received from you on January 14, 2022 at 1633. 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. ample # Sample ID	Addr:	Honolulu Board of Water Supply	Client ID: HONOLULU
Honolulu, HI 96843 Sample Group: Red-Hill Expanded List (Albuquerque+) Attn: Erwin Kawata Project Manager: Debbie L Frank Phone: 808-748-5091 Phone: (626) 386-1149 PO #: C20525101 exp 05312023 The following samples were received from you on January 14, 2022 at 1633. 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. ample # Sample ID		630 South Beretania Street	Folder #: 980670
Attn: Erwin Kawata Project Manager: Debbie L Frank Phone: 808-748-5091 Phone: (626) 386-1149 PO #: C20525101 exp 05312023 The following samples were received from you on January 14, 2022 at 1633. 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. ample # Sample ID Sample Date		Public Service Bldg." Room 308	Project: RED-HILL
Attn: Erwin Kawata Project Manager: Debble L Frank Phone: 808-748-5091 Phone: (626) 386-1149 PO #: C20525101 exp 05312023 The following samples were received from you on January 14, 2022 at 1633. 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. ample # Sample ID Sample Date		Honolulu, HI 96843	Sample Group: Red-Hill Expanded List
Phone: 808-748-5091 Phone: (626) 386-1149 PO #: C20525101 exp 05312023 The following samples were received from you on January 14, 2022 at 1633. 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. ample # Sample ID Sample Date			(Albuquerque+)
PO #: C20525101 exp 05312023 The following samples were received from you on January 14, 2022 at 1633. 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. ample # Sample ID Sample Date	Attn:	Erwin Kawata	Project Manager: Debbie L Frank
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listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC. ample # Sample ID Sample Date			PO #: C20525101 exp 05312023
	listed be	elow each sample. If this information is incorrect, pl	-
02201140666 HALAWA SHAFT-331-241-TP401 01/12/2022 0915	ample #	Sample ID	Sample Date
	02201140666	HALAWA SHAFT-331-241-TP401	01/12/2022 0915

TPH 8015 Diesel and Motor Oil

TPH 8015 Jet Fuel 5

01/12/2022 0915

(SUB)Gas Fraction Hydrocarbons

(SUB)Gas Fraction Hydrocarbons

TRAVEL BLANK::HALAWA SHAFT-331-241-TP401

TPH 8015 Jef Fuel 8

Test Description

202201140667

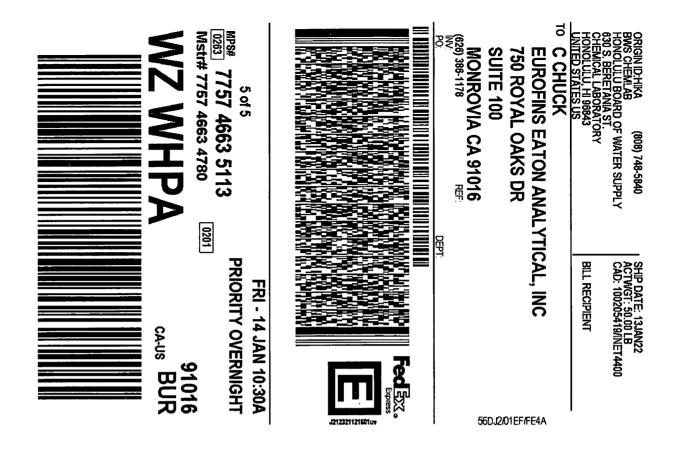
Page 1 of 1

eurofins Eaton Al Eaton Al	INTERN	INTERNAL CHAIN OF CUSTODY RECORD SAMPLE TEMP RECEIVED:	OF CU:	ςτοργ	RECORD	to o sintere diff.	
IR Gun ID = 6 CBA	(CA (Observation=2) °C) (C	Note: If samples are out of temperature range, let the AXMX KNOW. AXMX WIII determine whether to proceed with analysis of hour SAMPLES REC'D DAY OF COLLECTION? Yes / No	Y OF COLLEC (Final = 2	CTION? Yes	Yes / No	Juli IO dikijan	
TYPE OF ICE: Real Synthetic _		CONDITION OF ICE: Frozen	Frozen	Partially Frozen	en Thawed	db	
METHOD OF SHIPMENT: Pick-Up / Walk-In / RedEx / UPS / DHL / Area Fast / Top Line / Other:	p / Walk-In / RedEx / UPS	' DHL / Area Fast / '	Top Line / Ot	her:			
Compliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not fr	ipliance Acceptance Criteria: 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)	er 24 hrs of sample coll	lection)				
2) Microbiology, Distribution: < 10°C,		not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)	the same day	r as sample co	llection, within 8 h	ours)	
3) Microbiology, Surface Wa	3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)	hours of sample collect	tion)				-
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	d Microbiology measure the mperature of the	*C) (Corr.Factor *C) (Final =	.c)	Z = (Observation=	.C) (Corr.Factor	.C) (Final =C)	
quadrants	3 = (Observation=	*C) (Corr.Factor *C) (Final =	inal =C)	4 = (Observation=	. C) (Corr.Factor	•C) (Final =•C)	_
4 Dioxin (1613 or 2,3,7,8 TC	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)	not frozen (if received	after 24 hrs of	sample collec	tion)	5	
5) pH Check. Manufacturer:	Lot Number:		pH strip type: 0 - 14	or	Expiration Date		Results:
6) Chlorine check. Manufacturer: Sansafe. Lot No.:	acturer: Sansafe. Lot No.:	Expiration Date:		Results			
7) VOA and Radon Headspace:	No Samples with Headspace: Samples with Headspace (see below):	e:	Samples with	Samples with Headspace (see below):	see below):		
Exempt from headspace cont Samp ID Bottle # None/<6 >6mm Test	Exempt from headspace DOCULINELITATION (use adductional DOC and Nacon International Clients: Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, CGMS methods using 40 ml vials, International clients: le # None/<6	505, SPME, @CH, 532LCMS, >6mm Test 5	, 556, 536, Anatoxin, LCMS Samp ID Bottle # None/<6	In, LCMS methods None/<6 >6mm	using 40 ml vials, Int Test San	International clients: Samp ID Bottle # Mmm	e/<6 >6mm Test m
				-			
Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):	milar headspace (i.e. potential s	sampling errors):	-]		
SIGNATURE	PRINT NAME	NAME	COMPANY/TITLE	ултине	DATE	TIME	[
RECEIVED BY:	ニア	1017	Eurofins Eate	Eurofins Eaton Analytical	(/1/1/2	- 16:3	2
SJONATURE	PRINT NAME	NAME	COMPANY/TITLE		DATE	TIME	Γ
SAMPLES CHECKED AGAIMST COC BY:			Eurofins Eaton Analytical	on Analytical			

QA FO-FRM5504 (9.28.21) Ver 9

Page____of____

뷳 eurofins		Eaton Analytical	Kit Order I Debbie L Frank is you	Kit Order for Honolulu Board of Water Supply Debbie L Frank is your Eurofins Eaton Analytical, LLC Service Manager	ly ce Manager		Page 1 of 1
750 Ro Monro (626) 3	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 Plo	Note: Sampler Please return this paper with your samples		Created Date & Time: 12/10/2021 8:1	8:11:58PM
Pre	Kit #: 307677 Kit #: 307677 Created By: - [AutoGener Deliver By: 12/29/2021 STG: Bottle Orders Ice Type: G Pre Registered	Kit #: 307677 Kit #: 307677 Kit #: 307677 Kit #: 307677 Kit #: 30768 Kit #: 202024 Kit	Proje Grouje PO	Client ID: HONOLULU Project Code: RED-HILL Bottle Orders Group Name: Red-Hill Expanded List (Albuquerque+) PO#/JOB#: C20525101 exp 05312023 Description: AIEA GULCH WELLS PUMP 2 - EN	- Ei		
		Ship Sample Kits to Honolulu Board of Water Supply 630 South Beretania Street Chemistry Lab Honolulu, Ht 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 Bidg." Room 308 Honolulu, HI 96843	ter Supply Street Soom 308	
		Attr: Ron Fenstemacher Phone: 808-748-5841 Fax: 808-550-5572		Attri: Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018	Attrr. Erwin Kawata Phone: 808-748-5091 Fax: 808-550-5018		
# of Sample Tests			Bottle Qty - Ty	Bottle Qty - Type [preservative information]	Total	UN DOT #	
1 TPH 80	Physis C, @625BI	@625A_Physis C, @525BN_Physis 6; @625FAH_Physis_TIG9_C_8-TL amber glass [1-ml Thio 8%] TPH 8015 Diesel and Motor Oil C_TPH 8015 Jet Fuel 5_C_TPH	TICS C 8 - 1L amber	glass [4-ml Thio 8%]	8		
	8015 Jet Fuel 8_C		`		מ		
1 8015 Gas C	8015 Gas_C 8015 Gas_C TB		2 - 40ml ambt	3 - 40ml amber glass vial [1 drop Thio (8%)] r { (2 - 40ml amber class vial [1 drop Thio (8%) + H20] (ю с		
	@VDASDWA-C plus-plue TICs TBC	ICs TBC	3 - 40ml ambe	3 - 40ml amber glass vial (25mg AA± H20+10 drop 1:1-HGL)		-UN1789-	
4 OVDAS	@VOASDWA C plus plus TICs C	iles C	<u>3 - 40ml ambe</u>	3 - 40ml amber glass vial[25mg Ascorbic+drop 2ml 1:1 HCL]		UN1789-	
4-@8016	@8016-Ethanol_Subbed		4-40ml ambe	4 - 40ml amber glass vial[no preservative]			
Sum Tests: 7 Comments	2			<u> </u>	Sum Bottles: 32		-
1st MS/MSD SITE ID: 331-202 AIEA (1st MS/MSD SITE ID: 331-202 AIEA GULCH WELLS PUMP 2	IMP 2					
SAMPLER: EIGHT 1 LITEI	R AMBER GLASS I	30TTLES FOR 625 SERIES AM	VD NINE 1 LITER AMBEI	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.	ES. THIS IS A MS/MSD SITE.		
SHIPPING: Travel Blanks - Label Cooler or	TBA/MTBE, VOAS 1 TOP and right bel	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.	A LAB. xiption of contents (use e	(use extra Contalenr Labels)			
ASM: Be sure t Acetone - follov	o coordinate Follow v-ups need to use E	ASM: Be sure to coordinate Follow-up as needed for any new detections in Field sa Acetone - follow-ups need to use EPA 624	tections in Field samples.				
Code	Status	Date Shinned	Via	Trackino #	# of Coolers	Prepared Bv	



After printing this label:

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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, Diesel, Motor Oil and Jet Fuels are submitted by Emax Laboratories



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Er 63 Pu	onolulu Board of W win Kawata 0 South Beretania S ublic Service Bldg." I onolulu, HI 96843	Street			Samples Rec 01/14/2022 1	
Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

Report: 980670 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

Tel: (626) 386-1100

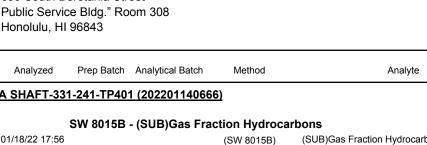
Fax: (866) 988-3757

🛟 eurofins

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
HALAWA	A SHAFT-33	1-241-TP40	1 (202201140666	<u>6)</u>		Sam	pled on 01/12	/2022 091	5
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
01/18/22	01/18/22 17:56			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
		SW 8015B	- TPH 8015 Dies	el and Motor	Oil				
01/19/22	01/22/22 01:02			(SW 8015B)	TPH Diesel	ND	mg/L	0.026	1
01/19/22	01/22/22 01:02			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.052	1
		EPA 8015 -	Jet Fuel 5 C8-C	:18					
01/19/22	01/22/22 01:02			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.052	1
		EPA 8015 -	Jet Fuel 8 C8-C	:18					
	01/22/22 01:02			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.052	1
TRAVEL	BLANK::HA	LAWA SHA	AFT-331-241-TP4	401 (20220114	<u>40667)</u>	Sam	pled on 01/12	/2022 091	5
		SW 8015B	- (SUB)Gas Frac	ction Hydroca	rbons				
01/18/22	01/18/22 19:40			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1

1 800 566 LABS (1 800 566 5227)

Eaton Analytical



Laboratory Data

Samples Received on:

01/14/2022 1633



LABORATORIES, INC.

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

Date: 02-01-2022 EMAX Batch No.: 22A154

Attn: Jackie Contreras

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

Subject: Laboratory Report Project: 980670

Enclosed is the Laboratory report for samples received on 01/18/22. The data reported relate only to samples listed below :

Sample ID	Control # Col Date	Matrix	Analysis
202201140666	A154-01 01/12/22	WATER	TPH GASOLINE TPH
202201140667	A154-02 01/12/22	WATER	TPH GASOLINE
202201140666MS	A154-01M 01/12/22	WATER	TPH GASOLINE TPH DIESEL
202201140666MSD	A154-01S 01/12/22	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 J. Pang Laboratory Director

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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	4		Submittal Form 22 A 154	Date: 1/17/2022
	🐨 eurofins	Eaton Analytical	*REPORTING REQUIRMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers/ Report & Invoice must have the Folder# 980670 Job # 1000014	umbersi
			Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature.	ince on the report.
	Ship To: `EMAX Labora 3051 Fujita St.	Ship To: `EMAX Laboratories, Inc. 3051 Fujita St.	Provide Specified Specified Street for	n each Report the IsloCartification # and equested tests + marks
	Torrance, CA 90505	A 90505	Phone (626) 385-1165 Fax (626) 385-1152 Invoices to: Eurofins Eaton Analytical, LLC Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605	Gm HAWAII
	Phone: 310-618-8889	18-8889 Fax: 310-618-0818	3 DAY RUSH	
<u> </u>	Folder #: 980670	Report Due: 01/21/2022		
	Sample ID 202201140666 () Sample hune:	Client Sample ID for reference on HALAWA SHAFT-331-241-TP401 Sample Event:	Evence onl Sample Date & Time Matrix Clip Code PWSID P401 01/12/22 0915 DW ent: Facility ID: Sample Point ID: Static ID:	SJL
	Method	Prep Method A	sis Requested	
	SW 8015B		(SUB)Gas Fraction Hydrocarbons	
	SW 8015B		TPH 8015 Diesel and Motor Oil	
	EPA 8015	EPA 8015 Je	Jet Fuel 5 C8-C18 1-+ E-1-1 e C9 E	
	EPA 8015	Р Р		
	Sample ID 202201140667	Client Sample TRAVEL BLANK:	Sample I 241-TP401 0 7	JLS
	Sample type:	Sample E	Facting In: Sample Fountin:	
	Method	po	Analysis Requested	
	SW 8015B	EPA 5030C (S	(SUB)Gas Fraction Hydrocarbons	
	Relinquished by	Sample Control	C. RETINER Date 1.17-22 Time 10:25 NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS	RIUS
Pag	Received by:		DateTimeAn Acknowledgement of Receipt is requested to attn: Jackie Contreras	kie Contreras
e 13	Relinquished by:	Sample Control	Date Time () () () () ()	
of 46	Received by.	Marin min		
pages	REPORT ID:	REPORT ID: 22A154 ⁷⁵⁰ Royal Oaks Drive, Suite 100, Monrovia, CA	Page 1 of 3 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton	Page 2 of 35

SAMPLE RECEIPT FORM 1

			N: 1 11 / 70 1				
Type of Delivery		Airbill / Tracking Number			ECN 22 A154		
	O Others	5491 4033 7978			Recipient Maria pivera		
EMAX Courier Client	Delivery		· · · · · · · · · · · · · · · · · · ·		Date 01/18/22	Time '	
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)		
Safety Issues (if any)	☐ High concentrations exp	pected	□ From Superfund Site	□ Rad screening required	L rieservative (il any)	TAT	
Note:		Jeeneu					
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PACKAGING INSPEC	TION						
Container	Cooler		D Box	□ Other			
Condition	Custody Seal		□ Intact	Damaged			
Paekaging	Bubble Pack		□ Styrofoam		Sufficient		
	Cooler 1 3.6 °C		ler 2_ 1,0 ℃				
Temperatures (Cool, ≤6 °C but not frozen)				Cooler 3 2.5 °C	Cooler 4 °C	Cooler 5°C	
	□ Cooler 6°C A - S/N <u>210191066</u> ~ 1		ler7°C B-\$/N_210271396	Cooler 8°C	Cooler 9°C	Cooler 10°C	
Thermometer:	A-3/14 21-1000 a 1	414		C-S/N 21027 1399	D - S/N		
-	is out of range. PM was informe	ed IMM	EDIATELY.				
Note:					·····		
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D pH holding time requirem	nent for water samples is 15 m	ins. Wa	ter samples for pH analy	sis are received beyond 15 n	ninutes from sampling time.	MSHOP	
NOTES/OBSERVATIO	NC					1 1 1	
NUTES/UBSERVATIO	INS:						
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LEGEND:					Continue to next pag	·····	
Code Description- Sample M	A	Cada T	According to a family Marrie	, 			
• •	0		Description-Sample Manag	gement	Code Description-Sample Mana		
, , , , , , , , , , , , , , , , , , , ,			Out of Holding Time		R1 Proceed as indicated in \Box COO	C 🗆 Label	
D2 Analysis mismatch COC			Subble is >6mm		R2 Refer to attached instruction		
D3 Sample ID mismatch Co			lo trip blank in cooler		R3 Cancel the analysis		
D4 Sample ID is not indicat			reservation not indicated in		$\mathbf{R4}$ Use vial with smallest bubble f	irst	
D5 Container -[improper] [l	leaking] [broken]	D17 P	reservation mismatch COC	vs label	R5 Log-in with latest sampling dat	e and time+1 min	
D6 Date/Time is not indicat	ted in	D18 L	nsufficient chemical preser	vative	R6 Adjust pH as necessary	А	
D7 Date/Time mismatch C0	OC vs label	D19 la	sufficient Sample		R7 Filter and preserved as necessar	VI 11 - 12	
D8 Sample listed in COC is			o filtration info for dissolv	ed analysis	R8 DA STA	d Ment	
D9 Sample received is not 1			o sample for moisture determ		R9 - Hpulac		
D10 No initial/date on correct		-		is not indicated on			
D10 No minandate on correct D11 Container count mismat		D23	J-1 Jour & Monigs	is not included in	R10	······	
					R11		
D12 Container size mismatch		D24			R12		
REVIEWS:	Maria lell	1		12.11	\ \	ΛſĹ	
Sample Label		\sim	SRF	- Hule) PM		
D	ate 01/18/22 18/2	12	Date	115/00	Date	120/22	
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EMAX Laboratories, Inc. 3051 Fujita St., Torrance, CA 90505

REPORT ID: 22A154

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

980670

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

SDG#: 22A154

REPORT ID: 22A154

Pagea de of 3546 pages

Client : EUROFINS EATON ANALYTICAL

Project: 980670

SDG : 22A154

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

A total of two(2) water samples were received on 01/18/22 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. VGH7A05B - 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. VGH7A05L/VGH7A05C 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 A154-01M/A154-01S. 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.

	TRAP
	AND
	PURGE
	ВΥ
LAB CHRONICLE	HYDROCARBONS
	PETROLEUM
	TOTAL

Client : EUROFIN Project : 980670	Client : EUROFINS EATON ANALYTICAL Project : 980670							SDG NO. : 22/ Instrument ID : H7	: 22A154 ID : H7
		14 53 81 91 91 91 91 91 91 91 91 91 91 91 91 91		WATER	ER				
Client	Laboratory	Dilution	%	Analysis	Extraction	Sample	Calibrat [:] on Prep.	n Prep.	
Sample ID	Sample ID		Moist	DateTime	DateTime	Data FN	Data FN	Batch No	Notes
						\$ 5 1 1 1	1 1 1 1 1		
MRI K11	VGH7A05B	-	NA	01/18/2216:14	01/18/2216:14	AA18005A	AA18003A	22VGH7A05 Method Blank	thod Blank
	VGH7AD5L	-	NA	01/18/2216:48	01/18/2216:48	AA18006A	AA18003A	22VGH7A05 La.	22VGH7A05 Lab Control Sample (LCS)
	VGH7A05C	-	NA	01/18/2217:22	01/18/2217:22	AA18007A	AA18003A	22VGH7A05 LCS Duplicate	S Duplicate
202201140666	A154-01	-	NA	01/18/2217:56	01/18/2217:56	AA18008A	AA18003A	22VGH7A05 Field Sample	eld Sample
202201140666MS	A154-01M	-	NA	01/18/2218:30	01/18/2218:30	AA18009A	AA18003A	22VGH7A05 Ma	22VGH7A05 Matrix Spike Sample (MS)
202201140666MSD	A154-01S	-	NA	01/18/2219:05	01/18/2219:05	AA18010A	AA18003A	22VGH7A05 MS	22VGH7A05 MS Duplicate (MSD)
202201140667	A154-02	-	NA	01/18/2219:40	01/18/2219:40	AA18011A	AA18003A	22VGH7A05 Field Sample	eld Sample

FN - Filename % Moist - Percent Moisture REPORT ID: 22A154

SAMPLE RESULTS

REPORT ID: 22A154

Pageage of 3546 pages

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

=======================================	================			
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	01/12/22 09:15
Project : 980670		Date	e Received:	01/18/22
Batch No. : 22A154		Date	Extracted:	01/18/22 17:56
Sample ID : 202201140666		Date	Analyzed:	01/18/22 17:56
Lab Samp ID: A154-01		Diluti	on Factor:	1
Lab File ID: AA18008A			Matrix:	WATER
Ext Btch ID: 22VGH7A05		9	6 Moisture:	NA
Calib. Ref.: AA18003A		Inst	rument ID:	Н7
	=======================================	=======================================		
•	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	0.0355	0.0400	89	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: 22A154

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

	=================	===========		=========================
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	01/12/22 09:15
Project : 980670		Date	e Received:	01/18/22
Batch No. : 22A154		Date	Extracted:	01/18/22 19:40
Sample ID : 202201140667		Date	Analyzed:	01/18/22 19:40
Lab Samp ID: A154-02		Diluti	ion Factor:	1
Lab File ID: AA18011A			WATER	
Ext Btch ID: 22VGH7A05		0	6 Moisture:	NA
Calib. Ref.: AA18003A		Inst	rument ID:	H7
=============================			=======================================	
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/l)	
				-
GASOLINE	ND	0.020	0.010	
			0/	
SURROGATE PARAMETERS	RESULT	SPKAMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0385	0.0400	96	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	N ANALYTICAL	Date	Collected:	01/18/22 16:14
Project : 980670		Date	e Received:	01/18/22
Batch No. : 22A154		Date	Extracted:	01/18/22 16:14
Sample ID : MBLK1W		Date	e Analyzed:	01/18/22 16:14
Lab Samp ID: VGH7A05B		Dilut	ion Factor:	1
Lab File ID: AA18005A			Matrix:	WATER
Ext Btch ID: 22VGH7A05		5	% Moisture:	NA
Calib. Ref.: AA18003A		Ins	trument ID:	H7
=======================================	========================	==================		
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/l)	(mg/L)	
				-
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SOK AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0352	0.0400	88	60-140
	============		=============	

Notes:

Parameter H-C Range Gasoline C6-C10

Reported ND at RL quantitated per pattern recognition.

 Detection limits are reported relative to sample result significant figures.

 Sample Amount
 : 5ml

 Prepared by
 : SCerva

 Analyzed by : SCerva

REPORT ID: 22A154

01/18/22 17:22

01/18/22 17:22

VGH7A05C

AA18007A

22VGH7A05

AA18003A

CLIENT PROJECT BATCH NO. METHOD	: EUROFINS EATON ANAL : 980670 : 22A154 : 5030B/8015B	YTICAL		
MATRIX DILUTION FACT SAMPLE ID	: WATER OR: 1 : MBLK1W	1 LCS1W	% MOISTURE:NA 1 LCD1W	

1	
LCS1W	
VGH7A05L	
AA18006A	
01/18/22 16:48	
01/18/22 16:48	
22VGH7A05	
AA18003A	

ACCESSION:

LAB SAMPLE ID : VGH7A05B

LAB FILE ID : AA18005A

CALIBRATION REF: AA18003A

DATE PREPARED : 01/18/22 16:14

DATE ANALYZED : 01/18/22 16:14 PREP BATCH : 22VGH7A05

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.422	84	0.500	0.429	86	2	60-130	30
			. = = = = = = = = = = = = =	II	= = = = = = = = = = = = = = = = = = =					
SURROGATE PARAMETER		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0441	110	0.0400	0.0434	109		70-130	
	=========================			=======			=========			=======

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

REPORT ID: 22A154

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 980670
BATCH NO.	: 22A154
METHOD	: 5030B/8015B
=======================================	

LAB SAMPLE ID : A154- LAB FILE ID : AA180 DATE PREPARED : 01/18	01140666 01 008A 8/22 17:56 8/22 17:56 17A05		1 20220114064 A154-01M AA18009A 01/18/22 13 01/18/22 13 22VGH7A05 AA18003A	8:30		% MOISTURE 1 2022011402 A154-01S AA18010A 01/18/22 1 01/18/22 1 22VGH7A05 AA18003A	666MSD 9:05			
ACCESSION:										
PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPC (%)
Gasoline	ND	0.500	0.415	83	0.500	0.427	85	3	50-130	30
		========							==========================	
SURROGATE PARAMETER		SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Bromofluorobenzene		0.0400	0.0447	112	0.0400	0.0450	113		60-140	

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

980670

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22A154

REPORT ID: 22A154

Pagerage 26 3546 pages

Client : EUROFINS EATON ANALYTICAL

Project: 980670

SDG : 22A154

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 01/18/22 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. DSA012WB - 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 DSA012WL. 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 22A154-01M/22A154-01S. 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: 980670

SDG : 22A154

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 01/18/22 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. DSA012WB - 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 J5A012WL. 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 22A155-01M/22A155-01S. 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: 980670

SDG : 22A154

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 01/18/22 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. DSA012WB - 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 J8A012WL. 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 22A155-01M/22A155-01S. 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
	Я
AB CHRONICLE	HYDROCARBONS
	PETROLEUM
	TOTAL

client :	: EUROFINS EATON ANALYTICAL	CAL	Client : EUROFINS EATON ANALYTICAL						SDG NO.	: 22A154
	: 980670									Instrument ID : D5
					WATER	ER				
rlient	Labor	aboratory	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.	
sample ID	Sampl	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					• • • • •		
MEL K 10	DSA012WB	2ur	,	NA	01/21/2223:50	01/19/2213:30	LA21018A	LA21012A	22DSA012W	ZZDSA012W Method Blank
	DSA01	ZUL	-	NA	01/22/2200:08	01/19/2213:30	LA21019A	LA21012A	22DSA012W	22DSA012W Lab Control Sample (LCS)
02201140666	A154-01	10		NA	01/22/2201:02	01/19/2213:30	LA21022A	LA21012A	22DSA012W	22DSA012W Field Sample
02201140666MS	Sk	01M		NA	01/22/2201:20	01/19/2213:30	LA21023A	LA21012A	22DSA012W	22DSA012W Matrix Spike Sample (MS)
02201140666MSD	A	01S	-	NA	01/22/2201:37	01/19/2213:30	LA21024A	LA21012A	ZZDSA012W	22DSA012W MS Duplicate (MSD)

FN - Filename % Moist - Percent Moisture

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LAB CHRONICLE PETROLEUM HYDROCARBONS BY EXTRACTION

						L ;; ; ; ; : : : : : : ; ; ; : : : : : :			SDG NO 224154
Client 222iot	<pre>: EUROFINS EATON ANALYTICAL - 080470</pre>	NALYTICAL							9
Project =========							***		
	N				MA ⁻	WATER			
		laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	n Prep.
Sample ID		Sample ID	Factor	Moist	Dateľime	DateTime	Data FN	Data FN	Batch Notes
				1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1		DSA012WB	-	NA	01/21/2223:50	01/19/2213:30	LA21018A	LA21013A	22DSA012W Method Blank
		J5A012WL		NA	01/22/2200:26	01/19/2213:30	LA21020A	LA21013A	22DSA012W Lab Control Sample (LCS)
202201140666	566	A154-01	~	NA	01/22/2201:02	01/19/2213:30	LA21022A	LA21013A	22DSA012W Field Sample

FN - Filename % Moist - Percent Moisture

	EXTRACTION
Щ	BY
LAB CHRONICLE	HYDROCARBONS
	PETROLEUM

======================================	<pre>client : EUROFINS EATON ANALYTICAL</pre>	======================================						H	SDG NO.	======================================
Project	: 980670								Instrument ID : D5	
		******		1	*************************					
					WATER	ER				
Client		Laboratory Dilution	Dilution	%	Analysis	Extraction	Sample	Calibration Prep.	רep.	
Sample ID		Sample ID	Factor	Moist	DateTime	DateTime	Data FN	Data FN	Batch Notes	
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MBLK1W		DSA012WB	F	NA	01/21/2223:50	01/19/2213:30	LA21018A	LA21014A	22DSA012W Method Blank	d Blank
LCS1W		J8A012WL	-	NA	01/22/2200:44	01/19/2213:30	LA21021A	LA21014A	22DSA012W Lab Co	22DSA012W Lab Control Sample (LCS)
202201140666	566	A154-01	-	NA	01/22/2201:02	01/19/2213:30	LA21022A	LA21014A	22DSA012W Field Sample	Sample

FN - Filename % Moist - Percent Moisture

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SAMPLE RESULTS

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

	======================			==========	================
Client : E	EUROFINS EATON	ANALYTICAL	Date	Collected:	01/12/22 09:15
Project : 9	980670		Date	e Received:	01/18/22
Batch No. : 2	22A154		Date	Extracted:	01/19/22 13:30
Sample ID : 2	202201140666				01/22/22 01:02
Lab Samp ID: 2	22A154-01		Diluti	ion Factor:	
Lab File ID: I				Matrix:	
Ext Btch ID: 2				% Moisture:	
Calib. Ref.: I	LA21012A			trument ID:	
azezazzzzzzz;					***************
		RESULTS	RL	MDL	
PARAMETERS		(mg/L)			
PARAMETERS		(mg/L)	(119/ - /	(-
Diesel		ND	0.026	0.013	
Motor Oil		ND	0.052		
SURROGATE PAR	AMETERS .	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene				84	
Hexacosane		0.122	0.130	94	60-130
===============================	=================	========================			
Notes:					
Parameter	-				
Diesel Motor Oil	C10-C24 C24-C36				
MOTOR UIL	124-130			• . •	

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.Sample Amount : 960mlFinal Volume : 5mlPrepared by : POreto/JMuertAnalyzed by : SDeeso

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

	=================	=======================================		
Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	01/12/22 09:15
Project : 980670		Date	Received:	01/18/22
Batch No. : 22A154		Date	Extracted:	01/19/22 13:30
Sample ID : 202201140666		Date	Analyzed:	01/22/22 01:02
Lab Samp ID: 22A154-01		Diluti	on Factor:	1
Lab File ID: LA21022A			Matrix:	WATER
Ext Btch ID: 22DSA012W		9	6 Moisture:	NA
Calib. Ref.: LA21013A		Inst	rument ID:	D5
=======================================	=================			
	RESULTS			
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
JP5	ND	0.052	0.026	
			N/DE OOVEDV	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Burnal and and	0 / 7 /	0.520	8/.	60-130
Bromobenzene	0.122		94	
Hexacosane	U. 122	0.130	/ 94	

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 : 960mlFinal Volume : 5mlPrepared by : POreto/JMuertAnalyzed by : SDeeso

.

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

	=============	==========		==================
Client : EUROFINS EATON	ANALYTICAL	Date	Collected:	01/12/22 09:15
Project : 980670		Date	e Received:	01/18/22
Batch No. : 22A154		Date	Extracted:	01/19/22 13:30
Sample ID : 202201140666		Date	e Analyzed:	01/22/22 01:02
Lab Samp ID: 22A154-01		Dilut	ion Factor:	1
Lab File ID: LA21022A			Matrix:	WATER
Ext Btch ID: 22DSA012W		2	% Moisture:	NA
Calib. Ref.: LA21014A		Inst	trument ID:	D5
	=========================	===========		
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
JP8	ND	0.052	0.026	
		00K 4KZ	NOF OOVEDY	00 1 1/1 7
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.436	0 520	8/	60-130
Hexacosane	0.438	0.130	94	
	U. 122		74	

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 : 960mlFinal Volume : 5mlPrepared by : POreto/JMuertAnalyzed by : SDeeso

REPORT ID: 22A154

.

QC SUMMARIES

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATO	N ANALYTICAL	Date	Collected:	01/19/22 13:30
Project : 980670		Date	e Received:	01/19/22
Batch No. : 22A154		Date	Extracted:	01/19/22 13:30
Sample ID : MBLK1W		Date	Analyzed:	01/21/22 23:50
Lab Samp ID: DSA012WB		Diluti	on Factor:	1
Lab File ID: LA21018A			Matrix:	WATER
Ext Btch ID: 22DSA012W		. 2	6 Moisture:	NA
Calib. Ref.: LA21012A		Inst	rument ID:	D5
				=================
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
Diesel	ND	0.025	0.012	-
		0.025	0.012	
Motor Oil	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.390	0.500	78	60-130
Hexacosane	0.111	0.125		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 : POreto/JMuert Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 980670
BATCH NO.	: 22A154
METHOD	: 3520C/8015B

MATRIX	:	WATER	% MOISTURE:NA
DILUTION FACTOR	:	1	1
SAMPLE ID	:	MBLK1W	LCS1W
LAB SAMPLE ID	:	DSA012WB	DSA012WL
LAB FILE ID	:	LA21018A	LA21019A
DATE PREPARED	:	01/19/22 13:30	01/19/22 13:30
DATE ANALYZED	:	01/21/22 23:50	01/22/22 00:08
PREP BATCH	:	22DSA012W	22DSA012W
CALIBRATION REF	:	LA21012A	LA21012A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.24	90	50-130
=======================================		===============			==========
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane	н 	0.500 0.125	0.418 0.124	84 99	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

REPORT ID: 22A154

Bromobenzene Hexacosane		0.540 0.135	0.454 0.134	84 99	0.540	0.449 0.130			60-130 60-130	
SURROGATE PARA	METERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)		QCLimit (%)	
Diesel	ND	2.70	2.46	91	2.70	2.35	87	5	50-130	30
PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)		MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
ACCESSION:										
LAB SAMPLE ID LAB FILE ID DATE PREPARED	: 22A154-01 : LA21022A : 01/19/22 13:30 : 01/22/22 01:02 : 22DSA012W	22A LA2 01/ 01/ 22D	2011408888 154-01M 1023A 19/22 13:30 22/22 01:20 SA012W 1012A			22A1 LA21 01/1 01/2	54-01S 024A 9/22 13:3 2/22 01:3 A012W	0		
MATRIX DILUTION FACTO SAMPLE ID	: WATER R: 1 : 202201140666	1	201140666MS			1	ISTURE:NA 01140666m	cD		
CLIENT PROJECT BATCH NO. METHOD	: EUROFINS EATON ANA : 980670 : 22A154 : 3520C/8015B	LYTICAL								

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

Î

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EA	TON ANALYTICAL	Date	Collected:	01/19/22 13:30
Project : 980670			Received:	
Batch No. : 22A154				01/19/22 13:30
Sample ID : MBLK1W		Date	Analyzed:	01/21/22 23:50
Lab Samp ID: DSA012WB			on Factor:	
Lab File ID: LA21018A			Matrix:	WATER
Ext Btch ID: 22DSA012W		2	6 Moisture:	NA
Calib. Ref.: LA21013A		Inst	rument ID:	D5
				:=====================================
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.390	0.500	78	60~130
Hexacosane	0.111	0.125	89	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 : POreto/JMuert Analyzed by : SDeeso

CLIENT	:	EUROFINS EATON	ANALYTICAL	
PROJECT	:	980670		
BATCH NO.	:	22A154		
METHOD	:	3520c/8015B		
when bad shift him have save seen your your save have bad have have bad	==		=======================================	
MATRIX	:	WATER	% MOISTURE:NA	
DILUTION FACTOR	:	1	1	
SAMPLE ID	:	MBLK1W	LCS1W	
LAD CAMPLE TO		DCA012UD	15 401214	

LAB SAMPLE ID :	DSA012WB	J5A012WL
LAB FILE ID :	LA21018A	LA21020A
DATE PREPARED :	01/19/22 13:30	01/19/22 13:30
DATE ANALYZED :	01/21/22 23:50	01/22/22 00:26
PREP BATCH :	22DSA012W	22DSA012W
CALIBRATION REF:	LA21013A	LA21013A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	1.98	79	30-160
		============			
SURROGATE PARAMETERS		SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene Hexacosane		0.500	0.459 0.128	92 102	60-130 60-130

MB: Method Blank sample LCS: Lab Control Sample

CLIENT	: EUROFINS EATON ANALYTICAL
PROJECT	: 980673
BATCH NO.	: 22A155
METHOD	: 3520C/8015B

Bromobenzene

Hexacosane

JP5 	ND	2.60 SpikeAmt	2.07 MSResult	80 ======= MSRec	2.58 ====== SpikeAmt	1.79 MSDResult	70 ====================================	15 ======	30-160 ====================================	30 ========
PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
	22D SA012W	220	21013A		1	22DS	5A012W 1013A		·	
DILUTION FACTOR: SAMPLE ID : LAB SAMPLE ID : LAB FILE ID : DATE PREPARED :	WATER 1 202201140677 22A155-01 LA21025A 01/19/22 13:30 01/22/22 01:55	22A LA2 01/	2201140677MS 155-01M 21026A (19/22 13:30 (22/22 02:13			1 2022 22A1 LA21 01/1	DISTURE:NA 201140677M 155-01S 1027A 19/22 13:3 22/22 02:3	SD 0		

0.396

0.112

76

86

0.515

0.129

0.372

0.116

72

90

0.520

0.130

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

REPORT ID: 22A154

60-130

60-130

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

		===========	=============	
Client : EUROFINS EAT	ON ANALYTICAL	Date	Collected:	01/19/22 13:30
Project : 980670		Date	e Received:	01/19/22
Batch No. : 22A154		Date	Extracted:	01/19/22 13:30
Sample ID : MBLK1W		Date	e Analyzed:	01/21/22 23:50
Lab Samp ID: DSA012WB		Dilut	ion Factor:	1
Lab File ID: LA21018A			Matrix:	WATER
Ext Btch ID: 22DSA012W			% Moisture:	NA
Calib. Ref.: LA21014A		Ins	trument ID:	D5
=======================================		============	=======================================	=================
	RESULTS	RL	MDL	
PARAMETERS	(mg/L)	(mg/L)	(mg/L)	
				-
JP8	ND	0.050	0.025	
OURROATE DARAMETERO	DEOUN T		WDE OOUEDV	
SURROGATE PARAMETERS	RESULT	SPK_AMI	%RECOVERY	QC LIMIT
Bromobenzene	0.390	0.500	78	60-130
Hexacosane		0,125		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 : 1000mlFinal Volume : 5mlPrepared by : POreto/JMuertAnalyzed by : SDeeso

REPORT ID: 22A154

## EMAX QUALITY CONTROL DATA LAB CONTROL SAMPLE ANALYSIS

CLIENT	: FUROFINS	S EATON ANA	LYTICAL			
PROJECT						
BATCH NO.	: 22A154					
METHOD	: 35200/80	D15B				
	============					=============
	: WATER		% MOISTU	RE:NA		
DILUTION FACTO			1			
	: MBLK1W	_	LCS1W			
LAB SAMPLE ID			J8A012WL			
LAB FILE ID			LA21021A	47-70		
DATE PREPARED						
DATE ANALYZED PREP BATCH			22DSA012			
CALIBRATION RE			LA21014A	N		
CALIDRATION RE	F: LAZIOIH	4	LA21014A			
ACCESSION:						
		MBResult	SpikeAmt	LCSResult	LCSRec	QCLimit
PARAMETERS		(mg/L)	(mq/L)	(mg/L)	(%)	(%)
JP8		ND	2.50	2.56	102	30-160
=======================================	===========		============		===========	================
			SpikeAmt	LCSResult	LCSRec	QCLimit
SURROGATE PARA	METERS			(mg/L)	(%)	(%)
Bromobenzene				0.531		
Hexacosane			0.125	0.123	98	60-130
	=============	=================	==================	=========	=======	****

MB: Method Blank sample LCS: Lab Control Sample

CLIENT : EUROF PROJECT : 98067 BATCH NO. : 22A15 METHOD : 3520C	5	LYTICAL								
MATRIX : WATER DILUTION FACTOR: 1 SAMPLE ID : 20220 LAB SAMPLE ID : 22A15 LAB FILE ID : LA210 DATE PREPARED : 01/19 DATE ANALYZED : 01/22 PREP BATCH : 22DSA CALIBRATION REF: LA210	1140677 5-01 25A /22 13:30 /22 01:55 012W	22A LA2 01/ 01/ 22D	201140677Ms 155-01M 1028A 19/22 13:30 22/22 02:49 SA012W 1014A			1 2022 22A1 LA21 01/1 01/2 22DS	DISTURE:NA 01140677M 55-01S 029A 9/22 13:3 2/22 03:0 A012W 014A	D		
ACCESSION:										
PARAMETERS	PSResult (mg/L)		MSResult (mg/L)	MSRec (%)		MSDResult (mg/L)		RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.55	2,48	97	2.55	2.43	95	2	30-160	30
SURROGATE PARAMETERS	========	SpikeAmt (mg/L)	MSResult (mg/L)	(%)	======================================	MSDResult (mg/L)			QCLimit (%)	*******
Bromobenzene Hexacosane		0.510 0.127	0.485 0.112	95 88	0.510 0.127	0.552 0.135	108 106		60-130 60-130	

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

REPORT ID: 22A154