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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
04/22/2022

Rinda Seddas
EUROFINS EATON
ANALYTICAL, LLC



Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 992222
Project: RED-HILL
Group: TPH-8015_RED-HILL (2022) Monthly

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

* Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis.

* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.

* Test results relate only to the sample(s) tested.

* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).

* This report shall not be reproduced except in full, without the written approval of the laboratory.

* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
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

ISO/IEC 17025:2017 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

<https://www.eurofinsus.com/Eaton>

Test(s)	Method(s)	Potable Water *	Waste Water	Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x	Gross Alpha coprecipitation	SM 7110 C	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x		Hardness	SM 2340 B	x	x
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x	Hexavalent Chromium	EPA 218.6,	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x	Hexavalent Chromium	EPA 218.7,	x	
Heterotrophic Bacteria	SM 9215 B	x		Hexavalent Chromium	SM 3500-Cr B		x
Legionella	Legiolert®	x		Inorganic Anions and DBPs	EPA 300.0	x	x
Pseudomonas aeruginosa	Idexx Pseudalart	x		Norganic Anions and DBPs	EPA 300.1	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x	Kjeldahl Nitrogen	EPA 351.2		x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x	Metals	EPA 200.7, EPA200.8	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x		Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Total Microcystins and Nodularins	EPA 546	X		Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Yeast and Mold	SM 9610	x		Odor	SM2150B	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x		Organohalide Pesticides and PCB	EPA 505	x	
1,4-Dioxane	EPA 522	x		Ortho Phosphate	SM 4500P E	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x		Oxyhalides Disinfect ion Byproducts	EPA 317.0	x	
Acrylamide	+ LCMS 2440)	x		Perchlorate	EPA 331.0	x	
Algal Toxins/Microcys in	+ LCMS 3570	x		Perchlorate (Low and High Levels)	EPA 314.0	x	
Alkalinity	SM 2320B	x	x	Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
Ammonia	EPA 350.1, SM 4500-NH3 H		x	PPCP and EDC	+ LCMS-2443	x	
Asbestos	EPA 100.2	x	x	pH	EPA 150.1 SM 4500-H+ B	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x	Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
BOD/CBOD	SM 5210 B		x	Phenylurea Pesticides/Herbicides	+ LCMS-2448	x	
Bromate	+ LCMS- 2447	x		Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Carbonate as CO3	SM 2330 B	x	x	Radon-222	SM 7500RN	x	
Carbonyls	EPA 556	x	x	Residue (Filterable)	SM 2540C	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x	Residue (Non-Filterable)	SM 2540D		x
Chlorinated Acids	EPA 515.4	x		Residue (Total)	SM 2540B		x
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x		Residue (Volatile)	EPA 160.4		x
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x		Semi-Volatile Compounds	EPA 525.2	x	
Color	SM2120B	x		Silica	SM 4500-SiO2 C	x	x
Conductivity	EPA 120.1, SM 2510B	x	x	Sulfide	SM 4500-S D		x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x		Sulfite	SM 4500-SO3 B	x	x
Cyanide (Amenable)	SM 4500-CN G	x	x	Surfactants	SM 5540C	x	x
Cyanide (Free)	SM 4500CN F	x	x	Taste and Odor	SM 6040 E	x	
Cyanide (Total)	EPA 335.4	x	x	Total Organic Carbon	SM 5310 C	x	x
Cyanogen Chloride (Screen)	+ 335 Mod (WC-24467)	x		Total Phenols	EPA 420.1		x
Diquat and Paraquat	EPA 549.2	x		Total Phenols	EPA 420.4	x	x
DBP and HAA	SM 6251 B	x		Triazine Pesticides and their Degradates	+ LCMS-3617	x	
Dissolved Organic Carbon	SM 5310 C	x		Turbidity	EPA 180.1	x	x
Dissolved Oxygen	SM 4500-O G		x	Uranium by ICP/MS	EPA 200.8	x	
EDB/DCBP/TCP	EPA 504.1	x		UV 254 Organic Constituents	SM 5910B	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x		VOCs	EPA 524.2	x	
EDTA and NTA	+ WC-2454	x		VOCs	+ (GCMS 2412) by EPA 524.2 modified	x	
Endothall	EPA 548.1, +(LCMS-2445)	x					
Fluoride	SM 4500F C	x	x				
Glyphosate	EPA 547	x					
Glyphosate and AMPA	+ LCMS-3618	x					
Gross Alpha and Gross Beta	EPA 900.0	x	x				

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+) In-House Method

Acknowledgement of Samples Received

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

Attn: Erwin Kawata
Phone: 808-748-5091

Client ID: HONOLULU
Folder #: 992222
Project: RED-HILL
Sample Group: TPH-8015_RED-HILL (2022) Monthly

Project Manager: Debbie L Frank
Phone: (626) 386-1149
PO #: C20525101 exp 05312023

The following samples were received from you on **March 10, 2022** at 1523. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date									
<u>202203100635</u>	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	03/08/2022 1048									
	<table border="0"> <tr> <td>@625A_Physis</td> <td>@625BN_Physis C</td> <td>@625PAH_Physis_TICS_C</td> </tr> <tr> <td>(SUB)Gas Fraction Hydrocarbons</td> <td>TPH 8015 Diesel and Motor Oil</td> <td>TPH 8015 Jet Fuel 5</td> </tr> <tr> <td>TPH 8015 Jef Fuel 8</td> <td></td> <td></td> </tr> </table>	@625A_Physis	@625BN_Physis C	@625PAH_Physis_TICS_C	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	TPH 8015 Jef Fuel 8			
@625A_Physis	@625BN_Physis C	@625PAH_Physis_TICS_C									
(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5									
TPH 8015 Jef Fuel 8											
<u>202203100636</u>	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	03/08/2022 1106									
	<table border="0"> <tr> <td>@625A_Physis</td> <td>@625BN_Physis C</td> <td>@625PAH_Physis_TICS_C</td> </tr> <tr> <td>(UB)Gas Fraction Hydrocarbons</td> <td>TPH 8015 Diesel and Motor Oil</td> <td>TPH 8015 Jet Fuel 5</td> </tr> <tr> <td>TPH 8015 Jef Fuel 8</td> <td></td> <td></td> </tr> </table>	@625A_Physis	@625BN_Physis C	@625PAH_Physis_TICS_C	(UB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5	TPH 8015 Jef Fuel 8			
@625A_Physis	@625BN_Physis C	@625PAH_Physis_TICS_C									
(UB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil	TPH 8015 Jet Fuel 5									
TPH 8015 Jef Fuel 8											

Test Description

- @625A_Physis -- 625 Acid Extractable in ug/L
- @625BN_Physis C -- 625 Base Neutral Extractable in ug/L
- @625PAH_Physis_TICS_C -- 625PAH in ug/L

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629

Phone: 626 386 1100
 Fax: 626 386 1101

800 566 LABS (800 566 5227)

LOGIN COMMENTS: _____

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona
 Monrovia

____ °C (Compliance: 4 ± 2 °C)
 0.9 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLES REC'D DAY OF COLLECTION? _____ (check for yes)

lymr
GR

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: BWS HONOLULU

PROJECT CODE: RED HILL

EEA CLIENT CODE: _____ COC ID: _____

SAMPLE GROUP: _____

TAT requested: rush by adv notice only

STD 1 wk 3 day 2 day 1 day

(check for yes)

COMPLIANCE SAMPLES _____

NON-COMPLIANCE SAMPLES

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), OR

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
03-08-22	1048	Aiea Gulch Wells Pump 1	H10000331-201	CFW			
03-08-22	1106	Aiea Gulch Wells Pump 2	H10000331-202	CFW			

Red Hill
 Mar 2022
 @625A
 X
 X

Temp Blank: _____ °C

* MATRIX TYPES: RSW = Raw Surface Water RGW = Raw Ground Water
 CFW = Chlor(am)inated Finished Water FW = Other Finished Water
 SEAW = Sea Water WW = Waste Water
 BW = Bottled Water SW = Storm Water
 SO = Soil SL = Sludge

PRINT NAME: Lew Bailey
 SIGNATURE: *G. REITNER*
 RECEIVED BY: *[Signature]*

COMPANY/TITLE: Honolulu Board of Water Supply
 DATE: March 8, 2022
 TIME: 1200
 03-10-2022 15:23

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

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (866) 988-3757

Created Date & Time: 1/3/2022 12:06:33AM

Note: Sampler Please return this paper with your samples

Kit #: 309377 

Client ID: HONOLULU 

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

Project Code: RED-HILL Bottle Orders
Group Name: Red-Hill Expanded List (Albuquerque+)
PO#/JOB#: C20525101 exp 05312023
Description: AIEA WELLS PUMPS 1&2 (260) - t

Ice Type: G
Pre Registered

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

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

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

# of Sample Tests	Bottle Qty - Type [preservative information]	Total	UN DOT #
1	TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 8015 Jet Fuel 8_C	6	
1	8015 Gas_C 2 OUT OF 3 APPROVED BROKEN - CR	3	
1	@504MOD TB C, 8015 Gas_C TB	2	
Sum Tests: 3		Sum Bottles: 11	

Comments

~~AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)~~

SAMPLER:

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

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 extra Containier Labels)

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

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 909002

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 = 649A (Observation = 1.2 °C) (Corr. Factor -0.3 °C) (Final = 0.9 °C)

TYPE OF ICE: Real Synthetic No ice Frozen Partially Frozen Thawed N/A

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 (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)

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 = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

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: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____

6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results: _____

VOA and Radon
7) Headspace: _____

Samples with Headspace (see below):

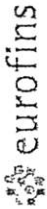
Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: _____

Sample ID	Bottle #	None/<6	>6mm	Test	Sample ID	Bottle #	None/<6	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

SIGNATURE 	PRINT NAME G. PEITNER	COMPANY/TITLE Eurofins Eaton Analytical	DATE 03.10.2022	TIME 15:23
SIGNATURE 	PRINT NAME G. PEITNER	COMPANY/TITLE Eurofins Eaton Analytical	DATE	TIME



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

IEA Folder Number:

G. PETER

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 = 649A (Observation = 3.0 °C) (Corr. Factor 0.3 °C) (Final = 2.7 °C)

TYPE OF ICE: Real Synthetic No Ice CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

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 (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)

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 = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	2 - (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
3 - (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	4 - (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

- 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: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____
- 6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results: _____

7) Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)
Exempt from headspace concerns: Methods 515.4, HAA(0251,552), 505, SPME,@CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6	>6mm	Test	Samp ID	Bottle #	None/<6	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

RECEIVED BY: _____ SIGNATURE: *G. PETER* PRINT NAME: G. PETER COMPANY/TITLE: Eurofins Eaton Analytical DATE: 03-10-2022 TIME: 15:23

SAMPLES CHECKED AGAINST COC BY: _____ SIGNATURE: _____ PRINT NAME: _____ COMPANY/TITLE: Eurofins Eaton Analytical DATE: _____ TIME: _____

INTERNAL CHAIN OF CUSTODY RECORD

Euroln Analytical

EEA Folder Number: 4444

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 = 649A (Observation = 3.5 °C) (Corr. Factor -0.3 °C) (Final = 3.2 °C)

TYPE OF ICE: Real Synthetic No Ice CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

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 (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)

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 = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

- 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: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____
- 6) Chlorine check. Manufacturer: Sensafe. Lot No.: _____ Expiration Date: _____ Results: _____

VOA and Radon
 Headspace: No Samples with Headspace: Samples with Headspace (see below):

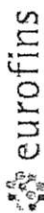
Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515-4, HAA(6251,562), 506, SPME, @CH, 532LCMS, 566, 536, Anatoxin, LCMS methods using 40 ml Vials, International clients:

Samp ID	Bottle #	None/<6	>6mm	Test	Samp ID	Bottle #	None/<6	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

RECEIVED BY: <u>AS</u>	PRINT NAME: <u>G. REITNER</u>	COMPANY/TITLE: <u>Eurolins Eaiob Analytical</u>	DATE: <u>03.10.2022</u>	TIME: <u>15:23</u>
SAMPLES CHECKED AGAINST COC BY: _____	PRINT NAME: _____	COMPANY/TITLE: <u>Eurolins Eaiob Analytical</u>	DATE: _____	TIME: _____



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 940002

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 = 649A (Observation = 4.5 °C) (Corr. Factor = -0.5 °C) (Final = 4.2 °C)

TYPE OF ICE: Real Synthetic No Ice Partially Frozen Thawed N/A

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 (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)

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 = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

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: _____ pH strip type: 0 - 14 or _____ Expiration Date _____ Results: _____

6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results _____

7) VOA and Radon Headspace: No Samples with Headspace: Samples with Headspace (see below):

Headspace Documentation (use additional VOC and Radon Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,662), 505, SPME, @CH, 532LCMS, 566, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6	>6mm	Test	Samp ID	Bottle #	None/<6	>6mm	Test

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
	G. PETER	Eurofins Eaton Analytical	03-10-2022	15:23
SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
		Eurofins Eaton Analytical		

ORIGIN ID:HIKA (808) 748-5840
 BWS CHEM LAB
 HONOLULU BOARD OF WATER SUPPLY
 630 S. BERETANIA ST.
 CHEMICAL LABORATORY
 HONOLULU HI 96843
 UNITED STATES US

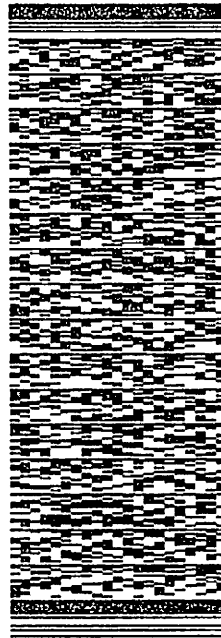
SHIP DATE: 09MAR22
 ACTWGT: 62.00 LB
 CAD: 100205419/NET4460
 BILL RECIPIENT

TO C CHUCK

EUROFINS EATON ANALYTICAL, INC
 750 ROYAL OAKS DR
 SUITE 100
 MONROVIA CA 91016

56D.J/E602/FE4A

REF: (626) 386-1178
 INV: PO: DEPT:



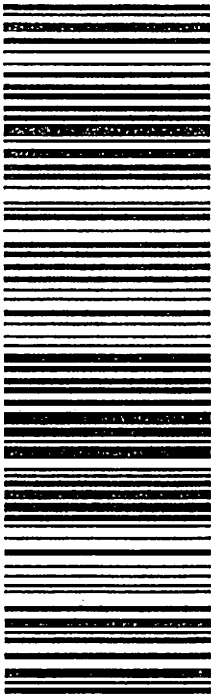
1 of 4

TRK# 7762 5339 1164
 [0201] # MASTER ##

THU - 10 MAR 10:30A
 PRIORITY OVERNIGHT

WZ WHPA

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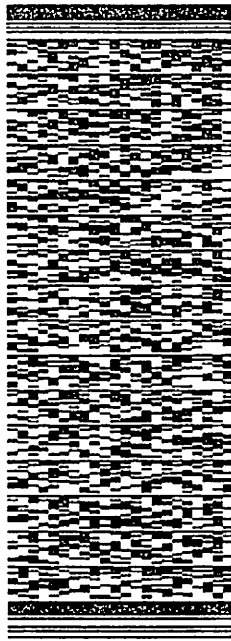
SHIP DATE: 09MAR22
ACTWGT: 62.00 LB
CAD: 100203419/NET/4460
BILL RECIPIENT

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EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100
MONROVIA CA 91016

REF: (626) 386-1178
PO: INV: DEPT:

56DJ5/EB02/FE4A



2 of 4

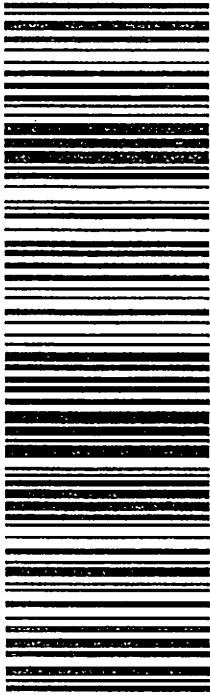
THU - 10 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 7762 5339 1933
0263
Mstr# 7762 5339 1164

0201

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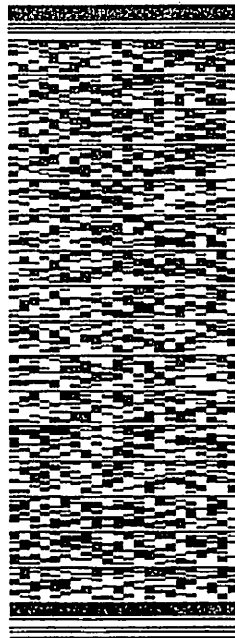
SHIP DATE: 09MAR22
ACTWGT: 62.00 LB
CAD: 100205419/NET4460
BILL RECIPIENT

TO C CHUCK

EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100

MONROVIA CA 91016
REF: (626) 386-1178
INV:

PO: DEPT:



56D.J5/EB02/FE4A

3 of 4

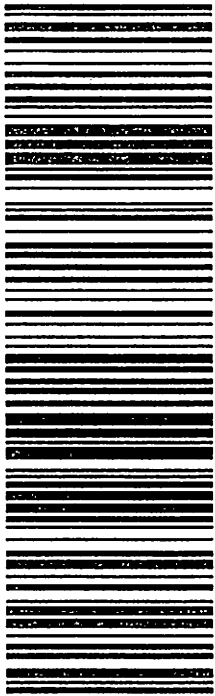
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0263
Mstr# 7762 5339 1164

0201

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PRIORITY OVERNIGHT

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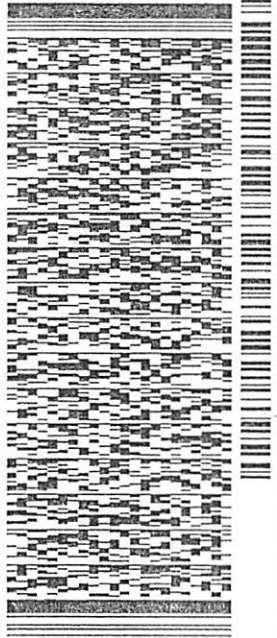
SHIP DATE: 09MAR22
ACTWTG1: 62.00 LB
CAD: 100205419/IN/ET4460

BILL RECIPIENT

TO C CHUCK

EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100
MONROVIA CA 91016

REF: (626) 386-1178
INV: PO: DEPT:



56DJ5/EB02/FE4A

4 of 4

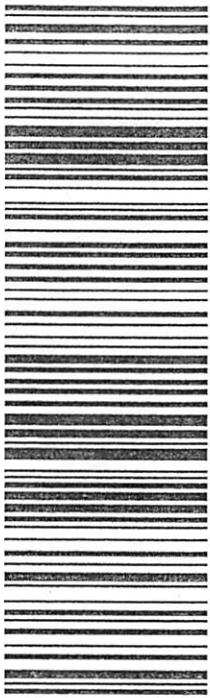
MPS# 7762 5339 2068
Mstr# 7762 5339 1164

0201

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PRIORITY OVERNIGHT

WZ WHPA

91016
BUR
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Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 992222
Project: RED-HILL
Group: TPH-8015_RED-HILL (2022) Monthly

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
Results for 625 PAHs, BNA and Acids are submitted by Physis Environmental Laboratoires,
Inc.

EEA enters Subcontractor data into EEA system for archive tracking purposes. Please
review Subcontract lab report for QC data and Qualifiers that are applicable to the reported
data. Significant figures may vary due to system limitations. Please review Subcontractor's
report in full.

ND reporting (subcontract lab reports)

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



Eaton Analytical

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Laboratory Hits

Report: 992222
Project: RED-HILL
Group: TPH-8015_RED-HILL (2022) Monthly

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

Samples Received on:
03/10/2022 1523

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
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SUMMARY OF POSITIVE DATA ONLY

Tel: (626) 386-1100
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Report: 992222
 Project: RED-HILL
 Group: TPH-8015_RED-HILL (2022) Monthly

Honolulu Board of Water Supply
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 Honolulu, HI 96843

Samples Received on:
 03/10/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (202203100635)						Sampled on 03/08/2022 1048			
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
03/11/22	03/11/22 17:38			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
03/14/22	03/15/22 18:59			(SW 8015B)	TPH Diesel	ND	mg/L	0.028	1
03/14/22	03/15/22 18:59			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.056	1
EPA 8015 - Jet Fuel 5 C8-C18									
03/14/22	03/15/22 18:59			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.056	1
EPA 625 - 625PAH in ug/L									
03/11/22	04/09/22 00:00			(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Methylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Acenaphthene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Acenaphthylene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Anthracene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(a)pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(b)fluoranthene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(k)fluoranthene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Biphenyl	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Chrysene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenzo(a,l)pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Fluoranthene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Fluorene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Naphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Pentachlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Perylene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Phenanthrene	ND	ug/L	0.005	1

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.

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

Samples Received on:
 03/10/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/11/22	04/09/22 00:00			(EPA 625)	Pyrene	ND	ug/L	0.005	1
EPA 8015 - Jet Fuel 8 C8-C18									
	03/15/22 18:59			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.056	1
EPA 625 - 625 Acid Extractable in ug/L									
03/11/22	04/09/22 00:00			(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Di-tert-butyl-4-methylphenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Di-tert-butylphenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Chlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Methylphenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Nitrophenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Chloro-3-methyl phenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Methylphenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Nitrophenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	6-tert-Butyl-2,4-dimethylphenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzoic acid	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzyl alcohol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Phenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	p-tert-Butylphenol	ND	ug/L	0.1	1
EPA 625 - 625 Base Neutral Extractable in ug/L									
03/11/22	04/09/22 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1

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Report: 992222
 Project: RED-HILL
 Group: TPH-8015_RED-HILL (2022) Monthly

Honolulu Board of Water Supply
 Erwin Kawata
 630 South Beretania Street
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 Honolulu, HI 96843

Samples Received on:
 03/10/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/11/22	04/09/22 00:00			(EPA 625)	Disalicylidenepropanediamine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1

AIEA GULCH WELLS PUMP 2 (331-202-TP072) (202203100636)

Sampled on 03/08/2022 1106

SW 8015B - (SUB)Gas Fraction Hydrocarbons

03/11/22	03/11/22 18:14			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
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SW 8015B - TPH 8015 Diesel and Motor Oil

03/14/22	03/15/22 19:17			(SW 8015B)	TPH Motor Oil	ND	ug/L	0.055	1
03/14/22	03/15/22 19:17			(SW 8015B)	TPH Diesel	ND	mg/L	0.028	1

EPA 8015 - Jet Fuel 5 C8-C18

03/14/22	03/15/22 19:17			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.055	1
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EPA 625 - 625PAH in ug/L

03/11/22	04/09/22 00:00			(EPA 625)	1-Methylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	1-Methylphenanthrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	2,3,5-Trimethylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Dimethylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Methylnaphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Acenaphthene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Acenaphthylene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Anthracene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benz(a)Anthracene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(a)pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(b)fluoranthene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(e)pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(g,h,i)perylene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzo(k)fluoranthene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Biphenyl	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Chrysene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenz(a,h)Anthracene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenzo(a,l)pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenzothiophene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Fluoranthene	ND	ug/L	0.005	1

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.

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

Samples Received on:
 03/10/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/11/22	04/09/22 00:00			(EPA 625)	Fluorene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Naphthalene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Pentachlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Perylene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Phenanthrene	ND	ug/L	0.005	1
03/11/22	04/09/22 00:00			(EPA 625)	Pyrene	ND	ug/L	0.005	1
EPA 8015 - Jet Fuel 8 C8-C18									
	03/15/22 19:17			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.055	1
EPA 625 - 625 Acid Extractable in ug/L									
03/11/22	04/09/22 00:00			(EPA 625)	2,4,5-Trichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4,6-Trichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4-Dichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,4-Dinitrophenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Dichlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Di-tert-butyl-4-methylphenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2,6-Di-tert-butylphenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Chlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Methylphenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Nitrophenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4,6-Dinitro-2-methylphenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Chloro-3-methyl phenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Methylphenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Nitrophenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	6-tert-Butyl-2,4-dimethylphenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzoic acid	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzyl alcohol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	pentachlorophenol	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Phenol	ND	ug/L	0.2	1
03/11/22	04/09/22 00:00			(EPA 625)	p-tert-Butylphenol	ND	ug/L	0.1	1
EPA 625 - 625 Base Neutral Extractable in ug/L									
03/11/22	04/09/22 00:00			(EPA 625)	2-Chloronaphthalene	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	2-Nitroaniline	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	3-Nitroaniline	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Bromophenylphenyl Ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Chlorophenylphenyl Ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	4-Nitroaniline	ND	ug/L	0.1	1

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

Laboratory Data

Report: 992222
 Project: RED-HILL
 Group: TPH-8015_RED-HILL (2022) Monthly

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

Samples Received on:
 03/10/2022 1523

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
03/11/22	04/09/22 00:00			(EPA 625)	Aniline	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Benzidine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	bis(2-Chloroethoxy)methane	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	bis(2-Chloroethyl)ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	bis(2-Chloroisopropyl) ether	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Dibenzofuran	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Disalicylidenepropanediamine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Hexachloroethane	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	Nitrobenzene	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	N-Nitrosodi-N-propylamine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	N-Nitrosodiphenylamine	ND	ug/L	0.1	1
03/11/22	04/09/22 00:00			(EPA 625)	p-Chloroaniline	ND	ug/L	0.1	1

Rounding on totals after summation.
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Eaton Analytical

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

Laboratory Hits

Report: 992222
Project: RED-HILL
Group: TPH-8015_RED-HILL (2022) Monthly

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

Samples Received on:
03/10/2022 1523

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
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SUMMARY OF POSITIVE DATA ONLY



LABORATORIES, INC.®

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

Date: 03-21-2022
EMAX Batch No.: 22C139

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 992222

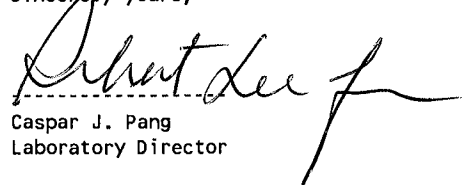
Enclosed is the Laboratory report for samples received on 03/11/22.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
202203100635	C139-01	03/08/22	WATER	TPH GASOLINE TPH
202203100636	C139-02	03/08/22	WATER	TPH GASOLINE TPH
202203100636MS	C139-02M	03/08/22	WATER	TPH GASOLINE
202203100636MSD	C139-02S	03/08/22	WATER	TPH GASOLINE

The results are summarized on the following pages.

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

Sincerely yours,



Caspar J. Pang
Laboratory Director

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

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

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



Eaton Analytical

Ship To:
EMAX Laboratories, Inc.
3051 Fujita St.
Torrance, CA 90505

Phone: 310-618-8889 Fax: 310-618-0818

Folder #: 992222
Report Due: 03/17/2022

Submittal Form

22C139

Date: 3/11/2022

*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # 992222 Job # 1000014

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

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofins.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the
Specified State Certification # and
Exp Date for requested tests + matrix.
Samples from: HAWAII

2-3 day rush

Sample ID: 202203100635 Client Sample ID for reference onl: AIEA GULCH WELLS PUMP 1 (331-201-TP071) Sample Date & Time Matrix: 03/08/22 1048 DW Clip Code: PWSID Static ID: JLS

Sample type: Sample Event: Analysis Requested: (SUB)Gas Fraction Hydrocarbons, TPH 8015 Diesel and Motor Oil, Jet Fuel 5 C8-C18, Jet Fuel 8 C8-C18

Sample ID: 202203100636 Client Sample ID for reference onl: AIEA GULCH WELLS PUMP 2 (331-202-TP072) Sample Date & Time Matrix: 03/08/22 1106 DW Clip Code: PWSID Static ID: JLS

Sample type: Sample Event: Analysis Requested: (SUB)Gas Fraction Hydrocarbons, TPH 8015 Diesel and Motor Oil, Jet Fuel 5 C8-C18, Jet Fuel 8 C8-C18

Relinquished by: *Jackie Contreras* Date: 3/11/22 Time: 11:39
Received by: *Jackie Contreras* Date: 3/11/22 Time: 11:39
Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

Temp: ① 2.7/2.2
② 1.9/1.4
③ 3.3/2.8

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

Type of Delivery	Airbill / Tracking Number	ECN <u>22C139</u>
<input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others		Recipient <u>MARIA RIVERA</u>
<input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery		Date <u>03/11/22</u> Time <u>11:39</u>

COC INSPECTION

<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time	<input checked="" type="checkbox"/> Sample ID	<input checked="" type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Address	<input checked="" type="checkbox"/> Tel # / Fax #	<input type="checkbox"/> Courier Signature	<input checked="" type="checkbox"/> Analysis Required	<input type="checkbox"/> Preservative (if any)	<input checked="" type="checkbox"/> TAT
Safety Issues (if any)	<input type="checkbox"/> High concentrations expected	<input type="checkbox"/> From Superfund Site	<input type="checkbox"/> Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	<input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/> Other
Condition	<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Intact	<input type="checkbox"/> Damaged
Packaging <u>Correction factor - 0.5</u>	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures (Cool, ≤6 °C but not frozen)	<input checked="" type="checkbox"/> Cooler 1 <u>2.7/2.2</u> °C	<input checked="" type="checkbox"/> Cooler 2 <u>1.9/1.4</u> °C	<input checked="" type="checkbox"/> Cooler 3 <u>3.3/2.8</u> °C
Thermometer: <u>A - S/N _____</u>	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 4 _____ °C
	<input type="checkbox"/> Cooler 8 _____ °C	<input type="checkbox"/> Cooler 9 _____ °C	<input type="checkbox"/> Cooler 5 _____ °C
	<input type="checkbox"/> Cooler 10 _____ °C	<input type="checkbox"/> Cooler 11 _____ °C	<input type="checkbox"/> Cooler 12 _____ °C

Comments: Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
<u>1, 2</u>	<u>2-10, 14, 15, 17-21</u>	<u>D2</u>	<u>Jet Fuel ⌀ is not indicated on label</u>	<u>RS</u>
<u>2</u>	<u>16</u>	<u>D2</u>	<u>analysis reads "625A, 625BN, 625 PAH Physis"</u>	<u>RS</u>
<u>2/3/11/22</u>				

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS: received only 1 Na₂S₂O₃ vial for 8015 gas for sample 1.

SAMPLE MATRIX IS DRINKING WATER? YES NO

LEGEND:

Code Description-Sample Management	Code Description-Sample Management	Code Description-Sample Management
<u>D1</u> Analysis is not indicated in _____	D13 Out of Holding Time	R1 Proceed as indicated in <input type="checkbox"/> COC <input type="checkbox"/> Label
<u>D2</u> Analysis mismatch COC vs label	D14 Bubble is >6mm	R2 Refer to attached instruction
D3 Sample ID mismatch COC vs label	D15 No trip blank in cooler	R3 Cancel the analysis
D4 Sample ID is not indicated in _____	D16 Preservation not indicated in _____	R4 Use vial with smallest bubble first
D5 Container -[improper] [leaking] [broken]	D17 Preservation mismatch COC vs label	R5 Log-in with latest sampling date and time+1 min
D6 Date/Time is not indicated in _____	D18 Insufficient chemical preservative	R6 Adjust pH as necessary
D7 Date/Time mismatch COC vs label	D19 Insufficient Sample	R7 Filter and preserved as necessary
D8 Sample listed in COC is not received	D20 No filtration info for dissolved analysis	R8 <u>Informed client.</u>
D9 Sample received is not listed in COC	D21 No sample for moisture determination	R9 _____
D10 No initial/date on corrections in COC/label	D22 _____	R10 _____
D11 Container count mismatch COC vs received	D23 _____	R11 _____
D12 Container size mismatch COC vs received	D24 _____	R12 _____

REVIEWS: Sample Labeling Solis-Ramos [Signature] SRF [Signature]
Date 03/11/22 Date 3/11/22

PM [Signature]
Date 3/14/22

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.
B	B	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

992222

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

SDG#: 22C139

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 992222

SDG : 22C139

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

A total of two(2) water samples were received on 03/11/22 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. VG39C03B - 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. VG39C03L/VG39C03C 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 C139-02M/C139-02S. 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.

SAMPLE RESULTS

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/08/22 10:48
Project     : 992222                     Date Received: 03/11/22
Batch No.   : 22C139                     Date Extracted: 03/11/22 17:38
Sample ID   : 202203100635              Date Analyzed: 03/11/22 17:38
Lab Samp ID: C139-01                    Dilution Factor: 1
Lab File ID: EC11008A                   Matrix: WATER
Ext Btch ID: 22VG39C03                  % Moisture: NA
Calib. Ref.: EC11003A                   Instrument ID: 39
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0296	0.0400	74	60 140

Notes:
Parameter H-C Range
Gasoline C6-C10
Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

QC SUMMARIES

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 992222
BATCH NO. : 22C139
METHOD : 5030B/8015B

MATRIX : WATER		% MOISTURE:NA
DILUTION FACTOR: 1	1	1
SAMPLE ID : MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID : VG39C03B	VG39C03L	VG39C03C
LAB FILE ID : EC11005A	EC11006A	EC11007A
DATE PREPARED : 03/11/22 15:48	03/11/22 16:24	03/11/22 17:01
DATE ANALYZED : 03/11/22 15:48	03/11/22 16:24	03/11/22 17:01
PREP BATCH : 22VG39C03	22VG39C03	22VG39C03
CALIBRATION REF: EC11003A	EC11003A	EC11003A

ACCESSION:

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	0.455	91	0.500	0.439	88	4	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0405	101	0.0400	0.0424	106	70-130

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

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 992222
BATCH NO. : 22C139
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202203100636                       202203100636MSD
LAB SAMPLE ID : C139-02                          C139-02M
LAB FILE ID  : EC11009A                          EC11010A
DATE PREPARED : 03/11/22 18:14                   03/11/22 18:50   03/11/22 19:27
DATE ANALYZED : 03/11/22 18:14                   03/11/22 18:50   03/11/22 19:27
PREP BATCH   : 22VG39C03                         22VG39C03        22VG39C03
CALIBRATION REF: EC11003A                        EC11003A        EC11003A
  
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.495	99	0.500	0.509	102	3	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0398	100	0.0400	0.0427	107	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

992222

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22C139

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 992222

SDG : 22C139

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 03/11/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/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. DSC018WB - 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 DSC018WL. 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 22C121-01M/22C121-01S. 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

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.

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 992222

SDG : 22C139

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 03/11/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/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. DSC018WB - 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 J5C018WL. 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 22C121-01M/22C121-01S. 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

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.

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 992222

SDG : 22C139

METHOD 3520C/8015B PETROLEUM HYDROCARBONS BY EXTRACTION

A total of two(2) water samples were received on 03/11/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/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. DSC018WB - 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 J8C018WL. 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 22C121-01M/22C121-01S. 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

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.

SAMPLE RESULTS

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/08/22 10:48
Project     : 992222                      Date Received: 03/11/22
Batch No.   : 22C139                      Date Extracted: 03/14/22 12:30
Sample ID   : 202203100635               Date Analyzed: 03/15/22 18:59
Lab Samp ID: 22C139-01                   Dilution Factor: 1
Lab File ID: LC15023A                    Matrix: WATER
Ext Btch ID: 22DSC018W                   % Moisture: NA
Calib. Ref.: LC15004A                    Instrument ID: D5
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.056	0.028

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.458	0.560	82	60-130
Hexacosane	0.154	0.140	110	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
 Sample Amount : 890ml Final Volume : 5ml
 Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/08/22 10:48
Project     : 992222                      Date Received: 03/11/22
Batch No.   : 22C139                      Date Extracted: 03/14/22 12:30
Sample ID   : 202203100635               Date Analyzed: 03/15/22 18:59
Lab Samp ID : 22C139-01                   Dilution Factor: 1
Lab File ID : LC15023A                    Matrix: WATER
Ext Btch ID: 22DSC018W                    % Moisture: NA
Calib. Ref.: LC15005A                     Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.056	0.028

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.458	0.560	82	60-130
Hexacosane	0.154	0.140	110	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
 Sample Amount : 890ml Final Volume : 5ml
 Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/08/22 11:06
Project     : 992222                      Date Received: 03/11/22
Batch No.   : 22C139                      Date Extracted: 03/14/22 12:30
Sample ID   : 202203100636               Date Analyzed: 03/15/22 19:17
Lab Samp ID: 22C139-02                   Dilution Factor: 1
Lab File ID: LC15024A                    Matrix: WATER
Ext Btch ID: 22DSC018W                   % Moisture: NA
Calib. Ref.: LC15003A                    Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
Diesel	ND	0.028	0.014	
Motor Oil	ND	0.055	0.028	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.417	0.550	76	60-130
Hexacosane	0.164	0.138	119	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 : 910ml Final Volume : 5ml
Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/08/22 11:06
Project     : 992222                      Date Received: 03/11/22
Batch No.   : 22C139                      Date Extracted: 03/14/22 12:30
Sample ID   : 202203100636              Date Analyzed: 03/15/22 19:17
Lab Samp ID: 22C139-02                  Dilution Factor: 1
Lab File ID: LC15024A                   Matrix: WATER
Ext Btch ID: 22DSC018W                  % Moisture: NA
Calib. Ref.: LC15004A                   Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.055	0.028

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.417	0.550	76	60-130
Hexacosane	0.164	0.138	119	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 : 910ml Final Volume : 5ml
 Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/08/22 11:06
Project     : 992222                       Date Received: 03/11/22
Batch No.   : 22C139                       Date Extracted: 03/14/22 12:30
Sample ID   : 202203100636                Date Analyzed: 03/15/22 19:17
Lab Samp ID: 22C139-02                    Dilution Factor: 1
Lab File ID: LC15024A                     Matrix: WATER
Ext Btch ID: 22DSC018W                    % Moisture: NA
Calib. Ref.: LC15005A                     Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JPB	ND	0.055	0.028

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.417	0.550	76	60-130
Hexacosane	0.164	0.138	119	60-130

Notes:

RL : Reporting Limit

Parameter H-C Range

JPB C8-C18

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 910ml

Final Volume : 5ml

Prepared by : JMuert

Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/14/22 12:30
Project     : 992222                      Date Received: 03/14/22
Batch No.   : 22C139                      Date Extracted: 03/14/22 12:30
Sample ID   : MBLK1W                      Date Analyzed: 03/15/22 14:42
Lab Samp ID: DSC018WB                    Dilution Factor: 1
Lab File ID: LC15009A                    Matrix: WATER
Ext Btch ID: 22DSC018W                  % Moisture: NA
Calib. Ref.: LC15003A                    Instrument ID: D5
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.025	0.012
Motor Oil	ND	0.050	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.411	0.500	82	60-130
Hexacosane	0.144	0.125	115	60-130

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

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 992222
BATCH NO. : 22C139
METHOD : 3520C/8015B

=====

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR:	1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSC018WB	DSC018WL
LAB FILE ID	: LC15009A	LC15010A
DATE PREPARED	: 03/14/22 12:30	03/14/22 12:30
DATE ANALYZED	: 03/15/22 14:42	03/15/22 15:00
PREP BATCH	: 22DSC018W	22DSC018W
CALIBRATION REF:	LC15003A	LC15003A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----	-----
Diesel	ND	2.50	2.53	101	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----
Bromobenzene	0.500	0.401	80	60-130
Hexacosane	0.125	0.137	110	60-130

=====

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 991851
BATCH NO. : 22C121
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202203090784                       202203090784MSD
LAB SAMPLE ID : 22C121-01                         22C121-01S
LAB FILE ID  : LC15015A                           LC15017A
DATE PREPARED : 03/14/22 12:30                   03/14/22 12:30
DATE ANALYZED : 03/15/22 16:32                   03/15/22 17:08
PREP BATCH   : 22DSC018W                         22DSC018W
CALIBRATION REF: LC15003A                         LC15003A
  
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.42	2.42	100	2.40	2.46	103	2	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.485	0.292	60	0.480	0.326	68	60-130
Hexacosane	0.121	0.142	117	0.120	0.113	94	60-130

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

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/14/22 12:30
Project     : 992222                      Date Received: 03/14/22
Batch No.   : 22C139                      Date Extracted: 03/14/22 12:30
Sample ID   : MBLK1W                      Date Analyzed: 03/15/22 14:42
Lab Samp ID: DSC018WB                     Dilution Factor: 1
Lab File ID: LC15009A                     Matrix: WATER
Ext Btch ID: 22DSC018W                   % Moisture: NA
Calib. Ref.: LC15004A                    Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
JP5	ND	0.050	0.025	
SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.411	0.500	82	60-130
Hexacosane	0.144	0.125	115	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP5 C8-C18
 Reported ND at RL quantitated per pattern recognition.

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 992222
BATCH NO. : 22C139
METHOD : 3520C/8015B

=====

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR:	1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSC018WB	J5C018WL
LAB FILE ID	: LC15009A	LC15011A
DATE PREPARED	: 03/14/22 12:30	03/14/22 12:30
DATE ANALYZED	: 03/15/22 14:42	03/15/22 15:19
PREP BATCH	: 22DSC018W	22DSC018W
CALIBRATION REF:	LC15004A	LC15004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----	-----
JP5	ND	2.50	2.47	99	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----
Bromobenzene	0.500	0.464	93	60-130
Hexacosane	0.125	0.145	116	60-130

=====

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 991851
BATCH NO. : 22C121
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 202203090784	202203090784MS	202203090784MSD
LAB SAMPLE ID	: 22C121-01	22C121-01M	22C121-01S
LAB FILE ID	: LC15015A	LC15018A	LC15019A
DATE PREPARED	: 03/14/22 12:30	03/14/22 12:30	03/14/22 12:30
DATE ANALYZED	: 03/15/22 16:32	03/15/22 17:27	03/15/22 17:45
PREP BATCH	: 22DSC018W	22DSC018W	22DSC018W
CALIBRATION REF:	LC15004A	LC15004A	LC15004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JPS	ND	2.70	2.23	83	2.65	2.45	92	9	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.540	0.419	78	0.530	0.419	79	60-130
Hexacosane	0.135	0.163	121	0.132	0.154	116	60-130

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

METHOD 3520C/8015B
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/14/22 12:30
Project     : 992222                     Date Received: 03/14/22
Batch No.   : 22C139                     Date Extracted: 03/14/22 12:30
Sample ID   : MBLK1W                     Date Analyzed: 03/15/22 14:42
Lab Samp ID: DSC018WB                    Dilution Factor: 1
Lab File ID: LC15009A                    Matrix: WATER
Ext Btch ID: 22DSC018W                   % Moisture: NA
Calib. Ref.: LC15005A                    Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.050	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.411	0.500	82	60-130
Hexacosane	0.144	0.125	115	60-130

Notes:

RL : Reporting Limit
 Parameter H-C Range
 JP8 C8-C18
 Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

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

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 992222
BATCH NO. : 22C139
METHOD : 3520C/8015B

=====

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR:	1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSC018WB	J8C018WL
LAB FILE ID	: LC15009A	LC15012A
DATE PREPARED	: 03/14/22 12:30	03/14/22 12:30
DATE ANALYZED	: 03/15/22 14:42	03/15/22 15:37
PREP BATCH	: 22DSC018W	22DSC018W
CALIBRATION REF:	LC15005A	LC15005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----	-----
JP8	ND	2.50	2.23	89	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
-----	-----	-----	-----	-----
Bromobenzene	0.500	0.512	102	60-130
Hexacosane	0.125	0.149	119	60-130

=====

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 991851
BATCH NO. : 22C121
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202203090784                       202203090784MSD
LAB SAMPLE ID : 22C121-01                         22C121-01S
LAB FILE ID  : LC15015A                           LC15021A
DATE PREPARED : 03/14/22 12:30                   03/14/22 12:30
DATE ANALYZED : 03/15/22 16:32                   03/15/22 18:22
PREP BATCH   : 22DSC018W                         22DSC018W
CALIBRATION REF: LC15005A                       LC15005A
    
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.65	1.98	75	2.55	2.46	96	22	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.530	0.467	88	0.510	0.441	86	60-130
Hexacosane	0.132	0.146	110	0.127	0.143	112	60-130

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