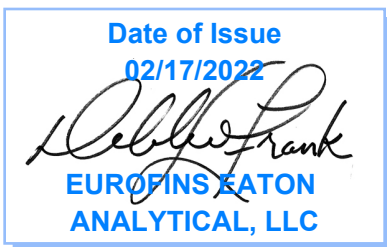


750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

## 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



Utah ELCP CA00006

DEB: Debbie L Frank  
Project Manager

Report: 979002  
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.

## 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 17025:2917 Accredited Method List

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

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

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

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 Disinfection Byproducts	EPA 317.0	x	
Acrylamide	+ LCMS 2440)	x		Perchlorate	EPA 331.0	x	
Algal Toxins/Microcystin	+ 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 #: 979002  
Project: RED-HILL  
Sample Group: Red-Hill Expanded List  
(Albuquerque+)  
Project Manager: Debbie L Frank  
Phone: (626) 386-1149  
PO #: C20525101 exp 05312023

The following samples were received from you on **January 07, 2022 at 1231**. 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>202201070092</u>	AIEA GULCH WELLS PUMP 1 (331-201-TP071) SDWIS PWSID: HI0000331 SDWIS FACILITY ID: TP071 SDWIS SAMPLE POINT ID: 201 (SUB)Gas Fraction Hydrocarbons      TPH 8015 Diesel and Motor Oil      TPH 8015 Jet Fuel 5 TPH 8015 Jef Fuel 8	01/05/2022 0920
<u>202201070093</u>	TRAVEL BLANK::AIEA GULCH WELLS PUMP 1 (331-201-TP071) (SUB)Gas Fraction Hydrocarbons	01/05/2022 0920
<u>202201070094</u>	AIEA GULCH WELLS PUMP 2 (331-202-TP072) SDWIS PWSID: HI0000331 SDWIS FACILITY ID: TP072 SDWIS SAMPLE POINT ID: 202 (SUB)Gas Fraction Hydrocarbons      TPH 8015 Diesel and Motor Oil      TPH 8015 Jet Fuel 5 TPH 8015 Jef Fuel 8	01/05/2022 0920
<u>202201070095</u>	TRAVEL BLANK::AIEA GULCH WELLS PUMP 2 -331-202-TP072 (SUB)Gas Fraction Hydrocarbons	01/05/2022 0920
<u>202201070096</u>	MOANALUA WELLS (331-223-TP202) SDWIS PWSID: HI0000331 SDWIS FACILITY ID: TP202 SDWIS SAMPLE POINT ID: 223 (SUB)Gas Fraction Hydrocarbons      TPH 8015 Diesel and Motor Oil      TPH 8015 Jet Fuel 5 TPH 8015 Jef Fuel 8	01/05/2022 0845
<u>202201070097</u>	TRAVEL BLANK::MOANALUA WELLS (331-223-TP202) (SUB)Gas Fraction Hydrocarbons	01/05/2022 0845

### Test Description





Eaton Analytical

Kit Order for Honolulu Board of Water Supply

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: 12/10/2021 6:09:17PM

Note: Sampler Please return this paper with your samples

Kit #: 307653  
Created By: - (AutoGenerated)  
Deliver By: 12/22/2021  
STG: Bottle Orders  
Ice Type: G  
Pre Registered

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 1 33

**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 #
4	@625A_Physis_C_@625BN_Physis_C_@625PAH_Physis_TIGS_C 4 - 1L amber glass [ 1 ml Thio 8% ]	4	
1	TPH 8015 Diesel and Motor Oil_C, TPH 8015 Jet Fuel 5_C, TPH 8015 Jet Fuel 8_C 4	6	
1	8015 Gas_C	3	
1	8015 Gas_C TB	2	
4	@VOASDWA-C plus plus TIGs TBC	3	UN1789
4	@VOASDWA-C plus plus TIGs-C	3	UN1789
4	@8015 Ethanol_Subbed	3	
<b>Sum Tests: 7</b>		<b>Sum Bottles: 24</b>	

Comments

AIEA GULCH WELLS PUMP 1 331-201-TP071

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

SHIPPING:  
Travel Blanks - TBA/MTBE, VOASDWA - Prepare TBs in the VOA LAB.  
Label Cooler on TOP and right below both Handles with Site description of contents ( use extra Contaienr 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



Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

94102

### 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 = 461 (Observation = 2.0 °C) (Corr. Factor = -0.12 °C) (Final = 1.8 °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  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(t251.552), 505, SPME, @CH, 532L.CMS, 556, 536, Atoxoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	None/<6	>6mm	Test	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>Chris Back</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
<u>Chris Back</u>		<u>Chris Back</u>	Eurofins Eaton Analytical	<u>11-7-22</u>	<u>1231</u>
SAMPLES CHECKED AGAINST COC BY:		PRINT NAME	COMPANY/TITLE	DATE	TIME
			Eurofins Eaton Analytical		



Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

*44162*

### 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 = 401 (Observation = 2.1 °C) (Corr. Factor 0.2 °C) (Final = 1.9 °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) 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(6251,552), 505, SPME, @CH, 532.CMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

Samp ID	Bottle #	mm	>6mm	Test	Samp ID	Bottle #	mm	>6mm	Test	Samp ID	Bottle #	mm	>6mm	Test

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

RECEIVED BY: <i>Chris Beck</i>	SIGNATURE	PRINT NAME: <i>Chris Beck</i>	COMPANY/TITLE: Eaton Analytical	DATE: <i>1.17.22</i>	TIME: <i>1235</i>
SAMPLES CHECKED AGAINST COC BY: _____	SIGNATURE	PRINT NAME: _____	COMPANY/TITLE: Eaton Analytical	DATE: _____	TIME: _____





eurofins

Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

921106

### 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 = 401 (Observation = 3.5 °C) (Corr. Factor 0.12 °C) (Final = 3.3 °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) 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(6251,652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMs methods using 40 ml vials, International clients:

Samp ID	Bottle #	mm	Test	Samp ID	Bottle #	mm	Test	Samp ID	Bottle #	mm	Test

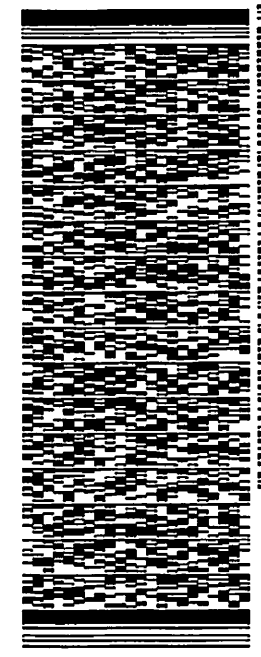
Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): \_\_\_\_\_

RECEIVED BY: <u>Amr Bock</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
<u>Amr Bock</u>			Eurofins Eaton Analytical	<u>1.7.22</u>	<u>1225</u>
SAMPLES CHECKED AGAINST COC BY: _____	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: 06 JAN 22  
 ACT WT: 60.00 LB  
 CAD: 100205419/IN/ET4400  
 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:

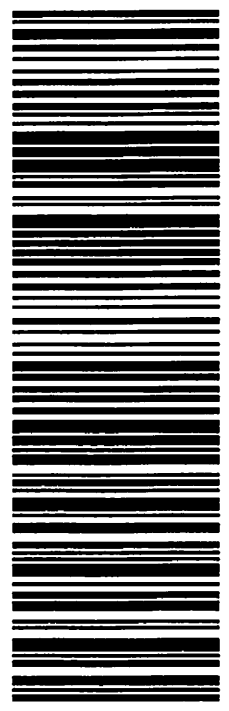


56D.J201EF/FE4A

MPS# 2 of 5  
 0263 7756 8459 8352  
 Mstr# 7756 8459 9153

0201

FRI - 07 JAN 10:30A  
 PRIORITY OVERNIGHT



WZ WHPA

CA-US 91016  
 BUR

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.  
 Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

SHIP DATE: 06 JAN 22  
ACTWGT: 60.00 LB  
CAD: 100205419/INET4400

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

BILL RECIPIENT

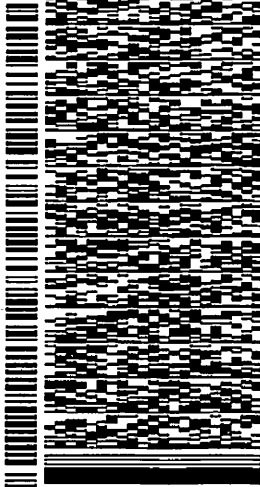
TO C CHUCK

EUROFINS EATON ANALYTICAL, INC  
750 ROYAL OAKS DR  
SUITE 100  
MONROVIA CA 91016  
REF: (626) 386-1178

56D2J201EFFE4A

DEPT:

PO:



4212211218714

FRI - 07 JAN 10:30A

1 of 5

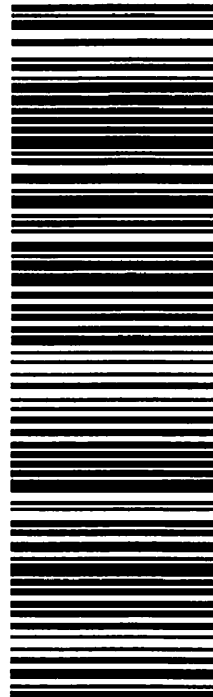
TRK# 7756 8459 9153

PRIORITY OVERNIGHT

## MASTER ##

91016  
CA-US BUR

WZ WHPA



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BWS CHEM LAB  
HONOLULU BOARD OF WATER SUPPLY  
630 S. BERETANIA ST  
CHEMICAL LABORATORY  
HONOLULU, HI 96843  
UNITED STATES US

SHIP DATE: 05 JAN 22  
ACT WT: 60.00 LB  
CAD: 100205419/NET 4400

BILL RECIPIENT

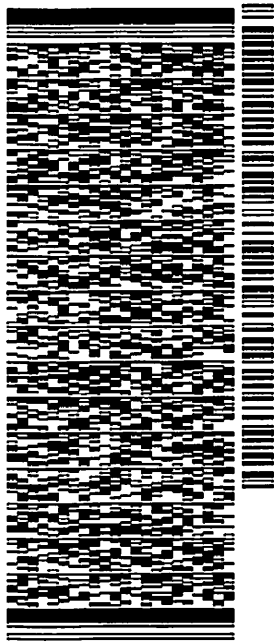
TO C CHUCK

EUROFINS EATON ANALYTICAL, INC  
750 ROYAL OAKS DR  
SUITE 100

MONROVIA CA 91016

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

56D.J201EF/FE4A



3 of 5

MPS# 7756 8459 8878  
0263

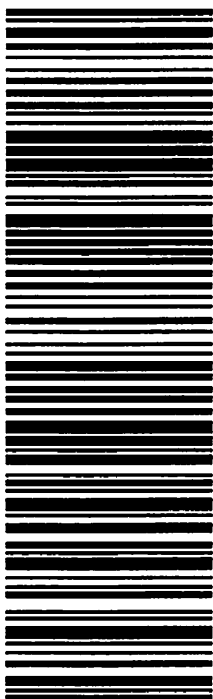
Mstr# 7756 8459 9153

0201

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

**Laboratory Comments**

**Report:** 979002  
**Project:** RED-HILL  
**Group:** Red-Hill Expanded List  
(Albuquerque+)

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

---

**Folder Comments**

Results for TPH Gas, Diesel, Motor Oil and Jet Fuels are submitted by EMAX Laboratories



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

**Report:** 979002  
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(Albuquerque+)

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

Samples Received on:  
01/07/2022 1231

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Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
----------	---------	-----------	--------	----------	-------	-----

---

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

**Report:** 979002  
**Project:** RED-HILL  
**Group:** Red-Hill Expanded List  
 (Albuquerque+)

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

Samples Received on:  
 01/07/2022 1231

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b><u>AIEA GULCH WELLS PUMP 1 (331-201-TP071) (202201070092)</u></b>						<b>Sampled on 01/05/2022 0920</b>			
Facility ID: TP071									
Sample Point ID: 201									
PWSID: HI0000331									
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/11/22	01/11/22 17:17			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
<b>SW 8015B - TPH 8015 Diesel and Motor Oil</b>									
01/12/22	01/13/22 16:12			(SW 8015B)	TPH Diesel	ND	mg/L	0.027	1
01/12/22	01/13/22 16:12			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.054	1
<b>EPA 8015 - Jet Fuel 5 C8-C18</b>									
01/12/22	01/13/22 16:12			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.054	1
<b>EPA 8015 - Jet Fuel 8 C8-C18</b>									
	01/13/22 16:12			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.054	1
<b><u>TRAVEL BLANK::AIEA GULCH WELLS PUMP 1 (331-201-TP071) (202201070093)</u></b>						<b>Sampled on 01/05/2022 0920</b>			
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/11/22	01/11/22 17:54			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
<b><u>AIEA GULCH WELLS PUMP 2 (331-202-TP072) (202201070094)</u></b>						<b>Sampled on 01/05/2022 0920</b>			
Facility ID: TP072									
Sample Point ID: 202									
PWSID: HI0000331									
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/11/22	01/11/22 18:30			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
<b>SW 8015B - TPH 8015 Diesel and Motor Oil</b>									
01/12/22	01/13/22 17:05			(SW 8015B)	TPH Diesel	ND	mg/L	0.027	1
01/12/22	01/13/22 17:05			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.055	1
<b>EPA 8015 - Jet Fuel 5 C8-C18</b>									
01/12/22	01/13/22 17:05			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.055	1
<b>EPA 8015 - Jet Fuel 8 C8-C18</b>									
	01/12/22 17:05			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.055	1
<b><u>TRAVEL BLANK::AIEA GULCH WELLS PUMP 2 -331-202-TP072 (202201070095)</u></b>						<b>Sampled on 01/05/2022 0920</b>			
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/11/22	01/11/22 19:06			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	1
<b><u>MOANALUA WELLS (331-223-TP202) (202201070096)</u></b>						<b>Sampled on 01/05/2022 0845</b>			
Facility ID: TP202									
Sample Point ID: 223									
PWSID: HI0000331									
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/11/22	01/11/22 19:43			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	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.



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Laboratory Data

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

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

Samples Received on:  
 01/07/2022 1231

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b>SW 8015B - TPH 8015 Diesel and Motor Oil</b>									
01/12/22	01/13/22 17:23			(SW 8015B)	TPH Diesel	ND	mg/L	0.028	1
01/12/22	01/13/22 17:23			(SW 8015B)	TPH Motor Oil	ND	mg/L	0.055	1
<b>EPA 8015 - Jet Fuel 5 C8-C18</b>									
01/12/22	01/13/22 17:23			(EPA 8015)	Jet Fuel 5	ND	mg/L	0.055	1
<b>EPA 8015 - Jet Fuel 8 C8-C18</b>									
	01/13/22 17:23			(EPA 8015)	Jet Fuel 8	ND	mg/L	0.055	1
<b><u>TRAVEL BLANK::MOANALUA WELLS (331-223-TP202) (202201070097)</u></b>						<b>Sampled on 01/05/2022 0845</b>			
<b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>									
01/11/22	01/11/22 20:20			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.02	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.



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

Date: 01-20-2022  
EMAX Batch No.: 22A077

Attn: Jackie Contreras

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

Subject: Laboratory Report  
Project: 979002

Enclosed is the Laboratory report for samples received on 01/11/22.  
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
202201070092	A077-01	01/05/22	WATER	TPH GASOLINE TPH
202201070093	A077-02	01/05/22	WATER	TPH GASOLINE
202201070094	A077-03	01/05/22	WATER	TPH GASOLINE TPH
202201070095	A077-04	01/05/22	WATER	TPH GASOLINE
202201070096	A077-05	01/05/22	WATER	TPH GASOLINE TPH
202201070097	A077-06	01/05/22	WATER	TPH GASOLINE
202201100059	A077-07	01/07/22	WATER	HOLD
202201100061	A077-08	01/07/22	WATER	HOLD
202201070092MS	A077-01M	01/05/22	WATER	TPH JP-8
202201070092MSD	A077-01S	01/05/22	WATER	TPH JP-8

The results are summarized on the following pages.

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

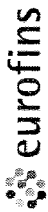
Sincerely yours,

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 #: 979002**      **Report Due: 01/14/2022**

**Submittal Form**

**Date: 1/11/2022**

**\*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!**  
Report & Invoice must have the Folder # 979002 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

**3 day rush**

**Sample ID:** 202201070092      **Client Sample ID for reference:** oil AIEA GULCH WELLS PUMP 1 (331-201-TP071)      **Sample Date & Time Matrix:** 01/05/22 0920 DW      **Clip Code:**      **PWSID:** JLS

**Sample type:**      **Sample Event:**      **Facility ID:**      **Sample Point ID:**      **Static ID:**

Method	Prep Method	Analysis Requested
SW 8015B	EPA 5030C	(SUB)Gas Fraction Hydrocarbons
SW 8015B	EPA 3550B	TPH 8015 Diesel and Motor Oil
EPA 8015	EPA 8015	Jet Fuel 5 C8-C18
EPA 8015		Jet Fuel 8 C8-C18

**Sample ID:** 202201070093      **Client Sample ID for reference:** oil TRAVEL BLANK AIEA GULCH WELLS PUMP 1 (331-201-TP071)      **Sample Date & Time Matrix:** 01/05/22 0920 DW      **Clip Code:**      **PWSID:** JLS

**Sample type:**      **Sample Event:**      **Facility ID:**      **Sample Point ID:**      **Static ID:**

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

Relinquished by: Xen      Sample Control      Date: 1/11/22      Time: 11:12

Received by: Jackie Contreras      Sample Control      Date: 1/11/22      Time: 11:12

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn. Jackie Contreras

Temp. 4.4, 0.7      (2) (3)

61111

**Sample ID** 202201070094 (3) **Client Sample ID for reference onl** AIEA GULCH WELLS PUMP 2 (331-202-TP072) **Sample Date & Time Matrix** 01/05/22 0920 DW **Clip Code** **PWSID** JLS  
**Sample type:** **Sample Event:** **Facility ID:** **Sample Point ID:** **Static ID:**

**Method** **Prep Method** **Analysis Requested**  
 SW 8015B EPA 5030C (SUB)Gas Fraction Hydrocarbons  
 SW 8015B EPA 3550B TPH 8015 Diesel and Motor Oil  
 EPA 8015 EPA 8015 Jet Fuel 5 C8-C18  
 EPA 8015 EPA 8015 Jet Fuel 8 C8-C18

**Sample ID** 202201070095 (4) **Client Sample ID for reference onl** TRAVEL BLANK AIEA GULCH WELLS PUMP 2 (331-202-TP072) **Sample Date & Time Matrix** 01/05/22 0920 DW **Clip Code** **PWSID** JLS  
**Sample type:** **Sample Event:** **Facility ID:** **Sample Point ID:** **Static ID:**

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

**Sample ID** 202201070096 (5) **Client Sample ID for reference onl** MOANALUA WELLS (331-223-TP202) **Sample Date & Time Matrix** 01/05/22 0845 DW **Clip Code** **PWSID** JLS  
**Sample type:** **Sample Event:** **Facility ID:** **Sample Point ID:** **Static ID:**

**Method** **Prep Method** **Analysis Requested**  
 SW 8015B EPA 5030C (SUB)Gas Fraction Hydrocarbons  
 SW 8015B EPA 3550B TPH 8015 Diesel and Motor Oil  
 EPA 8015 EPA 8015 Jet Fuel 5 C8-C18  
 EPA 8015 EPA 8015 Jet Fuel 8 C8-C18

**Sample ID** 202201070097 (6) **Client Sample ID for reference onl** TRAVEL BLANK MOANALUA WELLS (331-223-TP202) **Sample Date & Time Matrix** 01/05/22 0845 DW **Clip Code** **PWSID** JLS  
**Sample type:** **Sample Event:** **Facility ID:** **Sample Point ID:** **Static ID:**

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

**Relinquished by:** Xen **Sample Control** **Date** 1/11/22 **Time** 1112  
**Received by:** \_\_\_\_\_ **Date** \_\_\_\_\_ **Time** \_\_\_\_\_  
**Relinquished by:** \_\_\_\_\_ **Sample Control** **Date** 1/11/22 **Time** 11:12  
**Received by:** Chadwick **Date** \_\_\_\_\_ **Time** \_\_\_\_\_

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

Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others	Airbill / Tracking Number	ECN <u>22A077</u>
<input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery		Recipient <u>cecilia chavez</u>
		Date <u>01/11/22</u> Time <u>11:12</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	<input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input type="checkbox"/> Popcorn
Temperatures (Cool, ≤6 °C but not frozen)	<input type="checkbox"/> Cooler 1 _____ °C	<input checked="" type="checkbox"/> Cooler 2 <u>4.4</u> °C	<input checked="" type="checkbox"/> Cooler 3 <u>0.7</u> °C
	<input type="checkbox"/> Cooler 6 _____ °C	<input type="checkbox"/> Cooler 7 _____ °C	<input type="checkbox"/> Cooler 8 _____ °C
Thermometer:	A - S/N <u>210191066</u> a 14/14	B - S/N <u>210271396</u>	C - S/N <u>210271399</u>
			D - S/N _____

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

Note: \_\_\_\_\_

**DISCREPANCIES**

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
<u>7</u>	<u>28, 29</u>	<u>D9</u>	<u>ID: 2022 01100059 01/07/22 8:45</u>	<u>Analyze for GPO HOLD</u>
<u>8</u>	<u>30, 31</u>	<u>D9</u>	<u>ID: 2022 01100061 01/07/22 9:15</u>	<u>↓</u>
<u>1, 3, 5</u>	<u>4-7, 13-16, 21-5</u>	<u>D22</u>		<u>RI</u>
<i>[Large diagonal scribble across the table]</i>				

*ca/1/22*

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:**

---

**LEGEND:**

<p><b>Code Description- Sample Management</b></p> <p>D1 Analysis is not indicated in _____</p> <p>D2 Analysis mismatch COC vs label</p> <p>D3 Sample ID mismatch COC vs label</p> <p>D4 Sample ID is not indicated in _____</p> <p>D5 Container -[improper] [leaking] [broken]</p> <p>D6 Date/Time is not indicated in _____</p> <p>D7 Date/Time mismatch COC vs label</p> <p>D8 Sample listed in COC is not received</p> <p><input checked="" type="checkbox"/> D9 Sample received is not listed in COC</p> <p>D10 No initial/date on corrections in COC/label</p> <p>D11 Container count mismatch COC vs received</p> <p>D12 Container size mismatch COC vs received</p>	<p><b>Code Description-Sample Management</b></p> <p>D13 Out of Holding Time</p> <p>D14 Bubble is &gt;6mm</p> <p>D15 No trip blank in cooler</p> <p>D16 Preservation not indicated in _____</p> <p>D17 Preservation mismatch COC vs label</p> <p>D18 Insufficient chemical preservative</p> <p>D19 Insufficient Sample</p> <p>D20 No filtration info for dissolved analysis</p> <p>D21 No sample for moisture determination</p> <p><input checked="" type="checkbox"/> D22 Jet Fuel 8 Analysis not indicated on label</p> <p>D23 _____</p> <p>D24 _____</p>	<p><input type="checkbox"/> Continue to next page.</p> <p><b>Code Description-Sample Management</b></p> <p><input checked="" type="checkbox"/> R1 Proceed as indicated in COC <input type="checkbox"/> Label</p> <p><input checked="" type="checkbox"/> R2 Refer to attached instruction</p> <p>R3 Cancel the analysis</p> <p>R4 Use vial with smallest bubble first</p> <p>R5 Log-in with latest sampling date and time+1 min</p> <p>R6 Adjust pH as necessary</p> <p>R7 Filter and preserved as necessary</p> <p>R8 _____</p> <p>R9 _____</p> <p>R10 _____</p> <p>R11 _____</p> <p>R12 _____</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**REVIEWS:**

Sample Labeling <u>Maria Rivera</u>	SRF <u>Cecilia</u>
Date <u>01/11/22</u>	Date <u>1/11/22</u>

PM [Signature]  
Date 1/11/22

## 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

979002

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

SDG#: 22A077

## CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 979002

SDG : 22A077

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

A total of six(6) water samples were received on 01/11/22 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. VG39A06B - 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. VG39A06L/VG39A06C were within LCS limits. Refer to LCS summary form for details.

#### Matrix QC Sample

No matrix QC sample was provided on this SDG. Gasoline was within MS QC limits in A063-01M/A063-01S. 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.





# **SAMPLE RESULTS**

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/05/22 09:20
Project     : 979002                     Date Received: 01/11/22
Batch No.   : 22A077                     Date Extracted: 01/11/22 17:17
Sample ID   : 202201070092              Date Analyzed: 01/11/22 17:17
Lab Samp ID: A077-01                     Dilution Factor: 1
Lab File ID: EA11013A                    Matrix: WATER
Ext Btch ID: 22VG39A06                   % Moisture: NA
Calib. Ref.: EA11012A                    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	0.0288	0.0400	72	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



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

```

=====
Client      : EUROFINS EATON ANALYTICAL      Date Collected: 01/05/22 09:20
Project     : 979002                        Date Received: 01/11/22
Batch No.   : 22A077                        Date Extracted: 01/11/22 18:30
Sample ID   : 202201070094                 Date Analyzed: 01/11/22 18:30
Lab Samp ID: A077-03                        Dilution Factor: 1
Lab File ID: EA11015A                       Matrix: WATER
Ext Btch ID: 22VG39A06                      % Moisture: NA
Calib. Ref.: EA11012A                       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	0.0327	0.0400	82	60-140

Notes:

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

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

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

```

=====
Client      : EUROFINS EATON ANALYTICAL    Date Collected: 01/05/22 09:20
Project     : 979002                      Date Received: 01/11/22
Batch No.   : 22A077                      Date Extracted: 01/11/22 19:06
Sample ID   : 202201070095              Date Analyzed: 01/11/22 19:06
Lab Samp ID: A077-04                    Dilution Factor: 1
Lab File ID: EA11016A                   Matrix: WATER
Ext Btch ID: 22VG39A06                  % Moisture: NA
Calib. Ref.: EA11012A                   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	0.0326	0.0400	81	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

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/05/22 08:45
Project     : 979002                     Date Received: 01/11/22
Batch No.   : 22A077                     Date Extracted: 01/11/22 19:43
Sample ID   : 202201070096              Date Analyzed: 01/11/22 19:43
Lab Samp ID: A077-05                     Dilution Factor: 1
Lab File ID: EA11017A                    Matrix: WATER
Ext Btch ID: 22VG39A06                   % Moisture: NA
Calib. Ref.: EA11012A                    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	0.0324	0.0400	81	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 : 979002  
BATCH NO. : 22A077  
METHOD : 5030B/8015B

MATRIX : WATER		% MOISTURE:NA
DILUTION FACTOR: 1	1	1
SAMPLE ID : MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID : VG39A06B	VG39A06L	VG39A06C
LAB FILE ID : EA11005A	EA11006A	EA11007A
DATE PREPARED : 01/11/22 12:24	01/11/22 13:00	01/11/22 13:37
DATE ANALYZED : 01/11/22 12:24	01/11/22 13:00	01/11/22 13:37
PREP BATCH : 22VG39A06	22VG39A06	22VG39A06
CALIBRATION REF: EA11003A	EA11003A	EA11003A

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	0.486	97	0.500	0.473	95	3	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0418	105	0.0400	0.0418	105	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 : 979196  
BATCH NO. : 22A063  
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 202201100058	202201100058MS	202201100058MSD
LAB SAMPLE ID	: A063-01	A063-01M	A063-01S
LAB FILE ID	: EA11008A	EA11009A	EA11010A
DATE PREPARED	: 01/11/22 14:13	01/11/22 14:50	01/11/22 15:26
DATE ANALYZED	: 01/11/22 14:13	01/11/22 14:50	01/11/22 15:26
PREP BATCH	: 22VG39A06	22VG39A06	22VG39A06
CALIBRATION REF:	EA11003A	EA11003A	EA11003A

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	0.472	94	0.500	0.466	93	1	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0415	104	0.0400	0.0397	99	60-140

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

979002

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22A077

## CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 979002

SDG : 22A077

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

A total of three(3) water samples were received on 01/11/22 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. DSA006WB - 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 DSA006WL. 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 22A063-01M/22A063-01S. 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: 979002

SDG : 22A077

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

A total of three(3) water samples were received on 01/11/22 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. DSA006WB - 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 J5A006WL. 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 22A063-03M/22A063-03S. Refer to Matrix QC summary form for details.

#### Surrogate

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

#### Sample Analysis

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: 979002

SDG : 22A077

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

A total of three(3) water samples were received on 01/11/22 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. DSA006WB - 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 J8A006WL. Refer to LCS summary form for details.

#### Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22A077-01M/22A077-01S. 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: 01/05/22 09:20
Project     : 979002                     Date Received: 01/11/22
Batch No.   : 22A077                     Date Extracted: 01/12/22 14:00
Sample ID   : 202201070092              Date Analyzed: 01/13/22 16:12
Lab Samp ID : 22A077-01                  Dilution Factor: 1
Lab File ID : LA13020A                   Matrix: WATER
Ext Btch ID : 22DSA006W                  % Moisture: NA
Calib. Ref.: LA13005A                    Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.054	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.501	0.540	93	60-130
Hexacosane	0.131	0.135	97	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 : 930ml                      Final Volume : 5ml  
 Prepared by : JMuert                        Analyzed by : SDeeso

METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/05/22 09:20
Project    : 979002                       Date Received: 01/11/22
Batch No.  : 22A077                       Date Extracted: 01/12/22 14:00
Sample ID  : 202201070092                 Date Analyzed: 01/13/22 16:12
Lab Samp ID: 22A077-01                    Dilution Factor: 1
Lab File ID: LA13020A                     Matrix: WATER
Ext Btch ID: 22DSA006W                    % Moisture: NA
Calib. Ref.: LA13006A                     Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.054	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.501	0.540	93	60-130
Hexacosane	0.131	0.135	97	60-130

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

Detection limits are reported relative to sample result significant figures.  
 Sample Amount : 930ml                      Final Volume : 5ml  
 Prepared by : JMuert                        Analyzed by : SDeeso





METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/05/22 09:20
Project     : 979002                     Date Received: 01/11/22
Batch No.   : 22A077                     Date Extracted: 01/12/22 14:00
Sample ID   : 202201070094              Date Analyzed: 01/13/22 17:05
Lab Samp ID: 22A077-03                   Dilution Factor: 1
Lab File ID: LA13023A                    Matrix: WATER
Ext Btch ID: 22DSA006W                   % Moisture: NA
Calib. Ref.: LA13005A                    Instrument ID: D5
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP5	ND	0.055	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.478	0.545	88	60-130
Hexacosane	0.127	0.136	93	60-130

Notes:

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

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount : 920ml                      Final Volume : 5ml  
 Prepared by : JMuert                      Analyzed by : SDeeso

METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/05/22 09:20
Project     : 979002                     Date Received: 01/11/22
Batch No.   : 22A077                     Date Extracted: 01/12/22 14:00
Sample ID   : 202201070094              Date Analyzed: 01/13/22 17:05
Lab Samp ID: 22A077-03                   Dilution Factor: 1
Lab File ID: LA13023A                    Matrix: WATER
Ext Btch ID: 22DSA006W                   % Moisture: NA
Calib. Ref.: LA13006A                    Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.055	0.027

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.478	0.545	88	60-130
Hexacosane	0.127	0.136	93	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 : 920ml Final Volume : 5ml  
 Prepared by : JMuert Analyzed by : SDeeso

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/05/22 08:45
Project     : 979002                     Date Received: 01/11/22
Batch No.   : 22A077                     Date Extracted: 01/12/22 14:00
Sample ID   : 202201070096              Date Analyzed: 01/13/22 17:23
Lab Samp ID: 22A077-05                   Dilution Factor: 1
Lab File ID: LA13024A                    Matrix: WATER
Ext Btch ID: 22DSA006W                   % Moisture: NA
Calib. Ref.: LA13004A                    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	0.523	0.550	95	60-130
Hexacosane	0.130	0.138	94	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: 01/05/22 08:45
Project     : 979002                     Date Received: 01/11/22
Batch No.   : 22A077                     Date Extracted: 01/12/22 14:00
Sample ID   : 202201070096              Date Analyzed: 01/13/22 17:23
Lab Samp ID: 22A077-05                   Dilution Factor: 1
Lab File ID: LA13024A                    Matrix: WATER
Ext Btch ID: 22DSA006W                   % Moisture: NA
Calib. Ref.: LA13005A                    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	0.523	0.550	95	60-130
Hexacosane	0.130	0.138	94	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: 01/05/22 08:45
Project     : 979002                      Date Received: 01/11/22
Batch No.   : 22A077                      Date Extracted: 01/12/22 14:00
Sample ID   : 202201070096               Date Analyzed: 01/13/22 17:23
Lab Samp ID: 22A077-05                   Dilution Factor: 1
Lab File ID: LA13024A                    Matrix: WATER
Ext Btch ID: 22DSA006W                    % Moisture: NA
Calib. Ref.: LA13006A                    Instrument ID: D5
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
JP8	ND	0.055	0.028

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.523	0.550	95	60-130
Hexacosane	0.130	0.138	94	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 : 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: 01/12/22 14:00
Project     : 979002                      Date Received: 01/12/22
Batch No.   : 22A077                      Date Extracted: 01/12/22 14:00
Sample ID   : MBLK1W                      Date Analyzed: 01/13/22 13:15
Lab Samp ID: DSA006WB                     Dilution Factor: 1
Lab File ID: LA13010A                     Matrix: WATER
Ext Btch ID: 22DSA006W                    % Moisture: NA
Calib. Ref.: LA13004A                     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	0.395	0.500	79	60-130
Hexacosane	0.115	0.125	92	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 : 979002  
BATCH NO. : 22A077  
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA  
DILUTION FACTOR: 1 1  
SAMPLE ID : MBLK1W LCS1W  
LAB SAMPLE ID : DSA006WB DSA006WL  
LAB FILE ID : LA13010A LA13011A  
DATE PREPARED : 01/12/22 14:00 01/12/22 14:00  
DATE ANALYZED : 01/13/22 13:15 01/13/22 13:33  
PREP BATCH : 22DSA006W 22DSA006W  
CALIBRATION REF: LA13004A LA13004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.18	87	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.420	84	60-130
Hexacosane	0.125	0.119	95	60-130

MB: Method Blank sample LCS: Lab Control Sample



METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/12/22 14:00
Project    : 979002                      Date Received: 01/12/22
Batch No.  : 22A077                      Date Extracted: 01/12/22 14:00
Sample ID  : MBLK1W                      Date Analyzed: 01/13/22 13:15
Lab Samp ID: DSA006WB                   Dilution Factor: 1
Lab File ID: LA13010A                   Matrix: WATER
Ext Btch ID: 22DSA006W                  % Moisture: NA
Calib. Ref.: LA13005A                   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	0.395	0.500	79	60-130
Hexacosane	0.115	0.125	92	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 : 979002  
BATCH NO. : 22A077  
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA  
DILUTION FACTOR: 1 1  
SAMPLE ID : MBLK1W LCS1W  
LAB SAMPLE ID : DSA006WB J5A006WL  
LAB FILE ID : LA13010A LA13012A  
DATE PREPARED : 01/12/22 14:00 01/12/22 14:00  
DATE ANALYZED : 01/13/22 13:15 01/13/22 13:50  
PREP BATCH : 22DSA006W 22DSA006W  
CALIBRATION REF: LA13005A LA13005A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP5	ND	2.50	1.80	72	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.456	91	60-130
Hexacosane	0.125	0.122	98	60-130

MB: Method Blank sample LCS: Lab Control Sample

METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 01/12/22 14:00
Project     : 979002                     Date Received: 01/12/22
Batch No.   : 22A077                     Date Extracted: 01/12/22 14:00
Sample ID   : MBLK1W                     Date Analyzed: 01/13/22 13:15
Lab Samp ID : DSA006WB                   Dilution Factor: 1
Lab File ID : LA13010A                   Matrix: WATER
Ext Btch ID : 22DSA006W                  % Moisture: NA
Calib. Ref.: LA13006A                    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	0.395	0.500	79	60-130
Hexacosane	0.115	0.125	92	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 : 979002  
BATCH NO. : 22A077  
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA  
DILUTION FACTOR: 1 1  
SAMPLE ID : MBLK1W LCS1W  
LAB SAMPLE ID : DSA006WB J8A006WL  
LAB FILE ID : LA13010A LA13013A  
DATE PREPARED : 01/12/22 14:00 01/12/22 14:00  
DATE ANALYZED : 01/13/22 13:15 01/13/22 14:08  
PREP BATCH : 22DSA006W 22DSA006W  
CALIBRATION REF: LA13006A LA13006A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
JP8	ND	2.50	1.79	72	30-160

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.491	98	60-130
Hexacosane	0.125	0.130	104	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 979196  
BATCH NO. : 22A063  
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID   : 202201100058                        202201100058MSD
LAB SAMPLE ID : 22A063-01                          22A063-01S
LAB FILE ID  : LA13014A                            LA13016A
DATE PREPARED : 01/12/22 14:00                    01/12/22 14:00
DATE ANALYZED : 01/13/22 14:26                    01/13/22 15:01
PREP BATCH   : 22DSA006W                          22DSA006W
CALIBRATION REF: LA13004A                          LA13004A
  
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.50	2.08	83	2.45	2.45	100	16	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.500	0.407	81	0.490	0.480	98	60-130
Hexacosane	0.125	0.120	96	0.123	0.116	95	60-130

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

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 979196  
BATCH NO. : 22A063  
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID   : 202201100060                        202201100060MSD
LAB SAMPLE ID : 22A063-03                          22A063-03S
LAB FILE ID  : LA13017A                            LA13019A
DATE PREPARED : 01/12/22 14:00                    01/12/22 14:00
DATE ANALYZED : 01/13/22 15:19                    01/13/22 15:54
PREP BATCH   : 22DSA006W                          22DSA006W
CALIBRATION REF: LA13005A                          LA13005A
  
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP5	ND	2.58	2.05	80	2.60	2.35	90	14	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.515	0.454	88	0.520	0.500	96	60-130
Hexacosane	0.129	0.121	94	0.130	0.128	98	60-130

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

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 979002  
BATCH NO. : 22A077  
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID   : 202201070092                        202201070092MSD
LAB SAMPLE ID : 22A077-01                          22A077-01S
LAB FILE ID  : LA13020A                            LA13022A
DATE PREPARED : 01/12/22 14:00                    01/12/22 14:00
DATE ANALYZED : 01/13/22 16:12                    01/13/22 16:48
PREP BATCH   : 22DSA006W                          22DSA006W
CALIBRATION REF: LA13006A                          LA13006A
    
```

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
JP8	ND	2.72	2.51	92	2.75	2.44	89	3	30-160	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.545	0.633	116	0.550	0.620	113	60-130
Hexacosane	0.136	0.130	95	0.138	0.139	101	60-130

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