

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

## Laboratory Report

for

Honolulu Board of Water Supply  
630 South Beretania Street  
Public Service Bldg." Room 308  
Honolulu, HI 96843  
Attention: Erwin Kawata  
Fax: 808-550-5018

Date of Issue  
05/23/2022

*Rinda Seddas*  
EUROFINS EATON  
ANALYTICAL, LLC



Utah ELCP CA00006

DEB: Debbie L Frank  
Project Manager

Report: 990433  
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 |
|---|--|-----------------|-------------|
| Enterococci   | Enterolert                                 | x               | x           |
| Escherichia coli (Enumeration)  | SM 9221 B.1<br>SM 9221 F                   | x               |             |
| Fecal Coliform (P/A and Enumeration)  | SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)     | x               | x           |
| Fecal Streptococci and Enterococci  | SM 9230 B                                  | x               | x           |
| Heterotrophic Bacteria  | SM 9215 B                                  | x               |             |
| Legionella  | Legiolert®                                 | x               |             |
| Pseudomonas aeruginosa  | Idexx Pseudalert                           | x               |             |
| Total Coliform (P/A and Enumeration)  | SM 9221A, SM 9221B, SM 9221 C              | x               | x           |
| Total Coliform, Total Coliform with Chlorine Present                                      | SM 9221 B                                  | x               | x           |
| Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure) | SM 9223                                    | x               |             |
| Total Microcystins and Nodularins   | EPA 546                                    | X               |             |
| Yeast and Mold  | SM 9610                                    | x               |             |
| 1,2,3-Trichloropropane (TCP) at 5 PPT   | CA SRL 524M-TCP                            | x               |             |
| 1,4-Dioxane   | EPA 522                                    | x               |             |
| 2,3,7,8-TCDD  | Modified EPA 1613 B                        | x               |             |
| Acrylamide  | + LCMS 2440)                               | x               |             |
| Algal Toxins/Microcys in  | + LCMS 3570                                | x               |             |
| Alkalinity  | SM 2320B                                   | x               | x           |
| Ammonia   | EPA 350.1, SM 4500-NH3 H                   |                 | x           |
| Asbestos  | EPA 100.2                                  | x               | x           |
| Bicarbonate Alkalinity as HCO3  | SM 2330 B                                  | x               | x           |
| BOD/CBOD  | SM 5210 B                                  |                 | x           |
| Bromate   | + LCMS- 2447                               | x               |             |
| Carbonate as CO3  | SM 2330 B                                  | x               | x           |
| Carbonyls   | EPA 556                                    | x               | x           |
| Chemical Oxygen Demand  | EPA 410.4, SM 5220D                        |                 | x           |
| Chlorinated Acids   | EPA 515.4                                  | x               |             |
| Chlorine Dioxide  | Palin Test Chlordio X Plus, SM 4500-CLO2 D | x               |             |
| Chlorine, Free, Combined, Total Residual, Chloramines                                     | SM 4500-Cl G                               | x               |             |
| Color   | SM2120B                                    | x               |             |
| Conductivity  | EPA 120.1, SM 2510B                        | x               | x           |
| Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated               | SM 2330 B                                  | x               |             |
| Cyanide (Amenable)  | SM 4500-CN G                               | x               | x           |
| Cyanide (Free)  | SM 4500CN F                                | x               | x           |
| Cyanide (Total)   | EPA 335.4                                  | x               | x           |
| Cyanogen Chloride (Screen)  | + 335 Mod (WC-24467)                       | x               |             |
| Diquat and Paraquat   | EPA 549.2                                  | x               |             |
| DBP and HAA   | SM 6251 B                                  | x               |             |
| Dissolved Organic Carbon  | SM 5310 C                                  | x               |             |
| Dissolved Oxygen  | SM 4500-O G                                |                 | x           |
| EDB/DCBP/TCP  | EPA 504.1                                  | x               |             |
| EDB/DBCP and Disinfection Byproducts  | EPA 551.1                                  | x               |             |
| EDTA and NTA  | + WC-2454                                  | 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           |

| Test(s)                                  | Method(s)                              | Potable Water * | Waste Water |
|--|--|-----------------|-------------|
| Gross Alpha coprecipitation              | SM 7110 C                              | x               | x           |
| Hardness                                 | SM 2340 B                              | x               | x           |
| Hexavalent Chromium                      | EPA 218.6,                             | x               | x           |
| Hexavalent Chromium                      | EPA 218.7,                             | x               |             |
| Hexavalent Chromium                      | SM 3500-Cr B                           |                 | x           |
| Inorganic Anions and DBPs                | EPA 300.0                              | x               | x           |
| Norganic Anions and DBPs                 | EPA 300.1                              | x               |             |
| Kjeldahl Nitrogen                        | EPA 351.2                              |                 | x           |
| Metals                                   | EPA 200.7, EPA200.8                    | x               | x           |
| Nitrosamines                             | EEA-Agilent 521.1 (GCMS-24250)         | x               |             |
| Nitrate/Nitrite Nitrogen                 | EPA 353.2                              | x               | x           |
| Odor                                     | SM2150B                                | x               |             |
| Organohalide Pesticides and PCB          | EPA 505                                | x               |             |
| Ortho Phosphate                          | SM 4500P E                             | x               |             |
| Oxyhalides Disinfect ion Byproducts      | EPA 317.0                              | x               |             |
| Perchlorate                              | EPA 331.0                              | x               |             |
| Perchlorate (Low and High Levels)        | EPA 314.0                              | x               |             |
| Perfluorinated Alkyl Acids               | EPA 533, EPA 537, EPA 537.1            | x               |             |
| PPCP and EDC                             | + LCMS-2443                            | x               |             |
| pH                                       | EPA 150.1 SM 4500-H+ B                 | x               | x           |
| Phenolics – Low Level                    | +WC 2493 (EPA 420.2 and EPA 420.4 MOD) | x               | x           |
| Phenylurea Pesticides/Herbicides         | + LCMS-2448                            | x               |             |
| Radium-226, Radium-228                   | GA Tech (Rad-2374)                     | x               |             |
| Radon-222                                | SM 7500RN                              | x               |             |
| Residue (Filterable)                     | SM 2540C                               | x               | x           |
| Residue (Non-Filterable)                 | SM 2540D                               |                 | x           |
| Residue (Total)                          | SM 2540B                               |                 | x           |
| Residue (Volatile)                       | EPA 160.4                              |                 | x           |
| Semi-Volatile Compounds                  | EPA 525.2                              | x               |             |
| Silica                                   | SM 4500-SiO2 C                         | x               | x           |
| Sulfide                                  | SM 4500-S D                            |                 | x           |
| Sulfite                                  | SM 4500-SO3 B                          | x               | x           |
| Surfactants                              | SM 5540C                               | x               | x           |
| Taste and Odor                           | SM 6040 E                              | x               |             |
| Total Organic Carbon                     | SM 5310 C                              | x               | x           |
| Total Phenols                            | EPA 420.1                              |                 | x           |
| Total Phenols                            | EPA 420.4                              | x               | x           |
| Triazine Pesticides and their Degradates | + LCMS-3617                            | x               |             |
| Turbidity                                | EPA 180.1                              | x               | x           |
| Uranium by ICP/MS                        | EPA 200.8                              | x               |             |
| UV 254 Organic Constituents              | SM 5910B                               | x               |             |
| VOCs                                     | EPA 524.2                              | x               |             |
| VOCs                                     | +(GCMS 2412) by EPA 524.2 modified     | 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 #: 990433

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 **March 02, 2022 at 1354**. 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>202203020846</u> | HALAWA SHAFT-331-241-TP401<br>SDWIS PWSID: HI0000331<br>SDWIS FACILITY ID: TP401<br>SDWIS SAMPLE POINT ID: 241<br>(SUB)Gas Fraction Hydrocarbons      TPH 8015 Diesel and Motor Oil      TPH 8015 Jet Fuel 5<br>TPH 8015 Jef Fuel 8 | 02/28/2022 0915 |
| <u>202203020847</u> | TRAVEL BLANK::HALAWA SHAFT-331-241-TP401<br>(SUB)Gas Fraction Hydrocarbons  | 02/28/2022 0915 |

### Test Description



Eaton Analytical

# CHAIN OF CUSTODY RECORD

*4/28/22*

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:** \_\_\_\_\_

**SAMPLES CHECKED AGAINST COC BY:** *GB*

**SAMPLES LOGGED IN BY:** \_\_\_\_\_

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

**SAMPLE TEMP RECEIVED AT:** \_\_\_\_\_ °C (Compliance: 4 ± 2 °C)

Colton / No. California / Arizona

Monrovia

**CONDITION OF BLUE ICE:** Frozen  Thawed \_\_\_\_\_ Wet Ice \_\_\_\_\_ No Ice \_\_\_\_\_

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

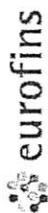
TO BE COMPLETED BY SAMPLER:

|   |                    |  |  |   |                         |
|---|--------------------|--|--|---|-------------------------|
| <b>COMPANY/AGENCY NAME:</b><br>BWS HONOLULU   |                    | <b>PROJECT CODE:</b><br>Red Hill               | <b>COMPLIANCE SAMPLES</b><br>- Requires state forms  | <b>NON-COMPLIANCE SAMPLES</b> <input checked="" type="checkbox"/> | <b>SAMPLER COMMENTS</b> |
| <b>EEA CLIENT CODE:</b><br>Honolulu           |                    | <b>SAMPLE GROUP:</b>                           | <b>REGULATION INVOLVED:</b>  |   |                         |
| <b>TAT requested: rush by adv notice only</b> |                    | STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___ | <b>SEE ATTACHED BOTTLE ORDER FOR ANALYSES</b> (check for yes) <input checked="" type="checkbox"/> (check for yes) <input type="checkbox"/> |   |                         |
| <b>SAMPLE DATE</b><br>2-28-22 0915            | <b>SAMPLE TIME</b> | <b>CLIENT LAB ID</b><br>HI0000331-241          | <b>MATRIX</b><br>CFW   | <b>COMPANY/TITLE</b><br>Honolulu Board of Water Supply            | <b>DATE</b><br>2-28-22  |
|   |                    | <b>SAMPLE ID</b><br>HALAWA SHAFT               |  | <b>SEAW = Sea Water</b>   | <b>SO = Soil</b>        |
|   |                    | <b>Temperature Blank</b>                       |  | <b>WW = Waste Water</b>   | <b>SL = Sludge</b>      |
|   |                    |  |  | <b>Temp Blank:</b> 25 °C  |                         |

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

|                         |                    |                     |                                |             |             |
|-------------------------|--------------------|---------------------|--------------------------------|-------------|-------------|
| <b>SAMPLED BY:</b>      | <b>SIGNATURE</b>   | <b>PRINT NAME</b>   | <b>COMPANY/TITLE</b>           | <b>DATE</b> | <b>TIME</b> |
|                         | <i>[Signature]</i> | Derek Dotson        | Honolulu Board of Water Supply | 2-28-22     |             |
| <b>RELINQUISHED BY:</b> |                    | Derek Dotson        | Honolulu Board of Water Supply | 3-1-2022    | 1200        |
| <b>RECEIVED BY:</b>     | <i>[Signature]</i> | <i>Chuee Brooks</i> | <i>GBA</i>                     | 3-2-22      | 1354        |
| <b>RELINQUISHED BY:</b> |                    |                     |                                |             |             |
| <b>RECEIVED BY:</b>     |                    |                     |                                |             |             |





Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 990793

### 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 = 51 °C) (Corr. Factor = 0.02 °C) (Final = 49.9 °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: FedEx

### 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(0251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

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

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

|                                |                                 |  |                       |                     |
|--------------------------------|---------------------------------|--|-----------------------|---------------------|
| SIGNATURE<br><u>Chris Beck</u> | PRINT NAME<br><u>Chris Beck</u> | COMPANY/TITLE<br>Eurofins Eaton Analytical | DATE<br><u>3.2.22</u> | TIME<br><u>1354</u> |
| SIGNATURE<br>                  | PRINT NAME<br>                  | COMPANY/TITLE<br>Eurofins Eaton Analytical | DATE<br>              | TIME<br>            |

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

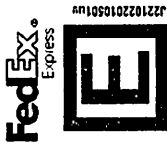
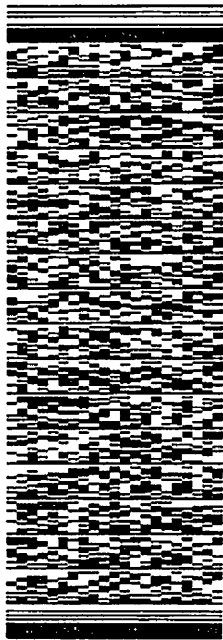
SHIP DATE: 01MAR22  
ACTWGT: 64.00 LB  
CAD: 100205419/INET4460

TO C CHUCK

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

56DJ3J9088/FE4A

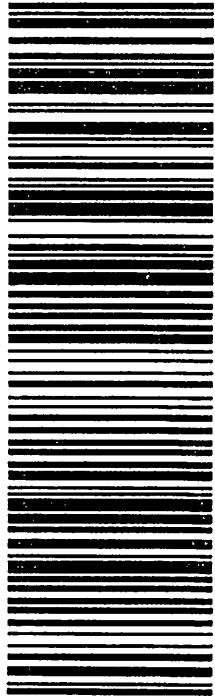
DEPT.



J221022010501111

1 of 3  
TRK# 7761 7737 9293  
0201  
## MASTER ##

WZ WHPA  
91016  
BUR  
CA-US



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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 (666) 988-3757

Created Date & Time: 1/10/2022 12:06:27AM

**Note: Sampler Please return this paper with your samples**

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

Kit #: 310070  
 Created By: - [AutoGenerated]  
 Deliver By: 02/09/2022  
 STG: Bottle Orders  
 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  | 3                      |          |
| 1                   | @504MOD TB C, 8015 Gas_C TB   | 2                      |          |
| <b>Sum Tests: 3</b> |   | <b>Sum Bottles: 11</b> |          |

**Comments**

AIEA WELLS PUMPS 1&2 (260) (334-260-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 - 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 Containter 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



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

**Laboratory Comments**

**Report:** 990433  
**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

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**Folder Comments**

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



Eaton Analytical

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

Laboratory Hits

**Report:** 990433  
**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:  
03/02/2022 1354

---

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

---

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Samples Received on:  
 03/02/2022 1354

| Prepped   | Analyzed       | Prep Batch | Analytical Batch | Method     | Analyte                        | Result                            | Units | MRL   | Dilution |
|---|----------------|------------|------------------|------------|--------------------------------|-----------------------------------|-------|-------|----------|
| <b><u>HALAWA SHAFT-331-241-TP401 (202203020846)</u></b>               |                |            |                  |            |                                | <b>Sampled on 02/28/2022 0915</b> |       |       |          |
| Facility ID: TP401  |                |            |                  |            |                                |                                   |       |       |          |
| Sample Point ID: 241  |                |            |                  |            |                                |                                   |       |       |          |
| PWSID: HI0000331  |                |            |                  |            |                                |                                   |       |       |          |
| <b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>                      |                |            |                  |            |                                |                                   |       |       |          |
| 03/03/22  | 03/03/22 20:16 |            |                  | (SW 8015B) | (SUB)Gas Fraction Hydrocarbons | ND                                | mg/L  | 0.02  | 1        |
| <b>SW 8015B - TPH 8015 Diesel and Motor Oil</b>                       |                |            |                  |            |                                |                                   |       |       |          |
| 03/07/22  | 03/08/22 16:58 |            |                  | (SW 8015B) | TPH Diesel                     | ND                                | mg/L  | 0.026 | 1        |
| 03/07/22  | 03/08/22 16:58 |            |                  | (SW 8015B) | TPH Motor Oil                  | ND                                | mg/L  | 0.052 | 1        |
| <b>EPA 8015 - Jet Fuel 5 C8-C18</b>                                   |                |            |                  |            |                                |                                   |       |       |          |
| 03/07/22  | 03/08/22 16:58 |            |                  | (EPA 8015) | Jet Fuel 5                     | ND                                | mg/L  | 0.052 | 1        |
| <b>EPA 8015 - Jet Fuel 8 C8-C18</b>                                   |                |            |                  |            |                                |                                   |       |       |          |
|   | 03/08/22 16:58 |            |                  | (EPA 8015) | Jet Fuel 8                     | ND                                | mg/L  | 0.052 | 1        |
| <b><u>TRAVEL BLANK::HALAWA SHAFT-331-241-TP401 (202203020847)</u></b> |                |            |                  |            |                                | <b>Sampled on 02/28/2022 0915</b> |       |       |          |
| <b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b>                      |                |            |                  |            |                                |                                   |       |       |          |
| 03/03/22  | 03/03/22 20:52 |            |                  | (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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Honolulu, HI 96843

Samples Received on:  
03/02/2022 1354

---

| Analyzed | Analyte | Sample ID | Result | Federal MCL | Units | MRL |
|----------|---------|-----------|--------|-------------|-------|-----|
|----------|---------|-----------|--------|-------------|-------|-----|

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**SUMMARY OF POSITIVE DATA ONLY**



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

Date: 03-14-2022  
EMAX Batch No.: 22C035

Attn: Jackie Contreras

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

Subject: Laboratory Report  
Project: 990433

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

| Sample ID    | Control # | Col Date | Matrix | Analysis            |
|--------------|-----------|----------|--------|---------------------|
| 202203020846 | C035-01   | 02/28/22 | WATER  | TPH GASOLINE<br>TPH |
| 202203020847 | C035-02   | 02/28/22 | 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 #: 990433 Report Due: 03/09/2022

Submittal Form

220035

Date: 3/3/2022

\*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder# 990433 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@eurofinset.com  
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016  
Phone (626) 386-1165 Fax (626) 386-1122  
Invoices to: Eurofins Eaton Analytical, LLC  
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

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

2-3 day rush

Sample ID 202203020846 Client Sample ID for reference on! HALAWA SHAFT-331-241-TP401 Sample Date & Time Matrix 02/28/22 0915 DW Clip Code PWSID JLS

Sample type: Sample Event: Sample ID: 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 202203020847 Client Sample ID for reference on! TRAVEL BLANK: HALAWA SHAFT-331-241-TP401 Sample Date & Time Matrix 02/28/22 0915 DW Clip Code PWSID JLS

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

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

Relinquished by: Ken Date: 3/3/22 Time: 12:36  
 Received by: Ken Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: Ken Date: 3/3/22 Time: 12:36  
 Received by: Ken Date: 3/3/22 Time: 12:36

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to ath: Jackie Contreras

TEMP: ① 3.6°/3.1°  
② 1.8°/1.3°  
③ 2.5°/2.0°

|   |                           |  |
|---|---------------------------|--|
| Type of Delivery<br><input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others<br><input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery | Airbill / Tracking Number | ECN <u>22C035</u><br>Recipient <u>Cecilia Chavez</u><br>Date <u>03/03/22</u> Time <u>12:36</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 type="checkbox"/> Matrix         |
| <input checked="" type="checkbox"/> Address     | <input type="checkbox"/> Tel # / Fax #                | <input type="checkbox"/> Courier Signature   | <input 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        |  |   |

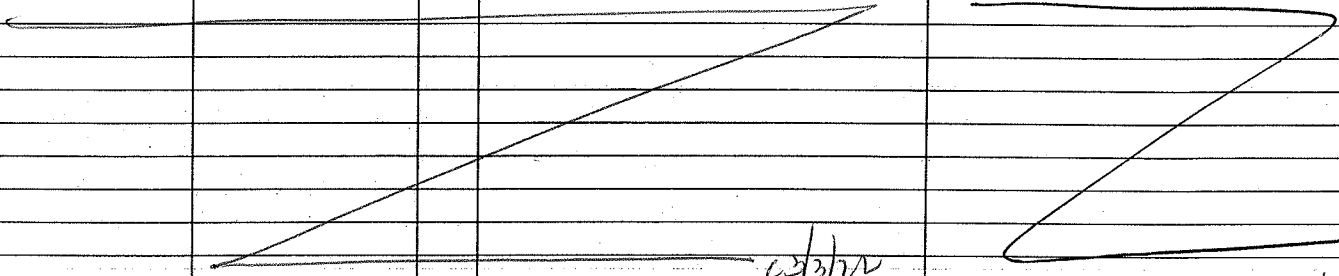
Note: \_\_\_\_\_

**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 checked="" type="checkbox"/> Cooler 1 <u>3.0/3.1</u> °C | <input checked="" type="checkbox"/> Cooler 2 <u>1.0/1.3</u> °C | <input checked="" type="checkbox"/> Cooler 3 <u>2.5/2.0</u> °C |
| Thermometer:                              | <input type="checkbox"/> Cooler 6 _____ °C                     | <input type="checkbox"/> Cooler 7 _____ °C                     | <input type="checkbox"/> Cooler 8 _____ °C                     |
|   | <input type="checkbox"/> Cooler 9 _____ °C                     | <input type="checkbox"/> Cooler 10 _____ °C                    | D - S/N _____  |

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

**DISCREPANCIES**

| LabSampleID   | LabSampleContainerID | Code | ClientSample Label ID / Information       | Corrective Action |
|---|----------------------|------|---|-------------------|
| 1   | 5-10                 | D2   | JET FUEL Ø is not indicated on label      | AB                |
| 2   | 11                   | D7   | two dates on label: 02/20/22 and 01/21/22 | AB                |
|  |                      |      |   |                   |

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:

- Code Description- Sample Management
- D1 Analysis is not indicated in \_\_\_\_\_
  - D2 Analysis mismatch COC vs label
  - D3 Sample ID mismatch COC vs label
  - D4 Sample ID is not indicated in \_\_\_\_\_
  - D5 Container -[improper] [leaking] [broken]
  - D6 Date/Time is not indicated in \_\_\_\_\_
  - D7 Date/Time mismatch COC vs label
  - D8 Sample listed in COC is not received
  - D9 Sample received is not listed in COC
  - D10 No initial/date on corrections in COC/label
  - D11 Container count mismatch COC vs received
  - D12 Container size mismatch COC vs received

- Code Description-Sample Management
- D13 Out of Holding Time
  - D14 Bubble is >6mm
  - D15 No trip blank in cooler
  - D16 Preservation not indicated in \_\_\_\_\_
  - D17 Preservation mismatch COC vs label
  - D18 Insufficient chemical preservative
  - D19 Insufficient Sample
  - D20 No filtration info for dissolved analysis
  - D21 No sample for moisture determination
  - D22 \_\_\_\_\_
  - D23 \_\_\_\_\_
  - D24 \_\_\_\_\_

- Continue to next page.
- Code Description-Sample Management
- R1 Proceed as indicated in  COC  Label
  - R2 Refer to attached instruction
  - R3 Cancel the analysis
  - R4 Use vial with smallest bubble first
  - R5 Log-in with latest sampling date and time+1 min
  - R6 Adjust pH as necessary
  - R7 Filter and preserved as necessary
  - R8 Informed Client
  - R9 \_\_\_\_\_
  - R10 \_\_\_\_\_
  - R11 \_\_\_\_\_
  - R12 \_\_\_\_\_

REVIEWS:

Sample Labeling Jocelyne Colistianos  
Date 03/03/22

SRF Cecilia  
Date 3/3/22

PM AB  
Date 3/4/22

## 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

990433

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

SDG#: 22C035

## CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 990433

SDG : 22C035

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

A total of two(2) water samples were received on 03/03/22 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. VG39C01B - 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. VG39C01L/VG39C01C 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 C036-01M/C036-01S. Refer to Matrix QC summary form for details.

#### Surrogate

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

#### Sample Analysis

Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.



LAB CHRONICLE  
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG NO. : 22C035  
Instrument ID : GCI039

Client : EUROFINIS EATON ANALYTICAL  
Project : 990433

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | Analysis DateTime | Extraction DateTime | Sample Data FN | Calibration Data FN | Prep. Batch | Notes                    |
|------------------|----------------------|-----------------|---------|-------------------|---------------------|----------------|---------------------|-------------|--------------------------|
|                  |                      |                 |         |                   |                     |                |                     |             |                          |
| MBLK1W           | VG39C01B             | 1               | NA      | 03/03/2213:31     | 03/03/2213:31       | EC03004A       | EC03003A            | 22VG39C01   | Method Blank             |
| LCS1W            | VG39C01L             | 1               | NA      | 03/03/2214:08     | 03/03/2214:08       | EC03005A       | EC03003A            | 22VG39C01   | Lab Control Sample (LCS) |
| LCD1W            | VG39C01C             | 1               | NA      | 03/03/2214:44     | 03/03/2214:44       | EC03006A       | EC03003A            | 22VG39C01   | LCS Duplicate            |
| 202203020846     | C035-01              | 1               | NA      | 03/03/2220:16     | 03/03/2220:16       | EC03015A       | EC03014A            | 22VG39C01   | Field Sample             |
| 202203020847     | C035-02              | 1               | NA      | 03/03/2220:52     | 03/03/2220:52       | EC03016A       | EC03014A            | 22VG39C01   | Field Sample             |

FN - Filename  
% Moist - Percent Moisture

# SAMPLE RESULTS

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 02/28/22 09:15
Project     : 990433                     Date Received: 03/03/22
Batch No.   : 22C035                     Date Extracted: 03/03/22 20:16
Sample ID   : 202203020846              Date Analyzed: 03/03/22 20:16
Lab Samp ID: C035-01                     Dilution Factor: 1
Lab File ID: EC03015A                    Matrix: WATER
Ext Btch ID: 22VG39C01                   % Moisture: NA
Calib. Ref.: EC03014A                    Instrument ID: 39
=====

```

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| GASOLINE             | ND                | 0.020        | 0.010         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| Bromofluorobenzene   | 0.0321            | 0.0400       | 80            | 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: 02/28/22 09:15
Project     : 990433                      Date Received: 03/03/22
Batch No.   : 22C035                      Date Extracted: 03/03/22 20:52
Sample ID   : 202203020847               Date Analyzed: 03/03/22 20:52
Lab Samp ID : C035-02                    Dilution Factor: 1
Lab File ID : EC03016A                  Matrix: WATER
Ext Btch ID : 22VG39C01                 % Moisture: NA
Calib. Ref.: EC03014A                   Instrument ID: 39
=====

```

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| GASOLINE             | ND                | 0.020        | 0.010         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| Bromofluorobenzene   | 0.0310            | 0.0400       | 78            | 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



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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/03/22 13:31
Project     : 990433                      Date Received: 03/03/22
Batch No.   : 22C035                      Date Extracted: 03/03/22 13:31
Sample ID   : MBLK1W                      Date Analyzed: 03/03/22 13:31
Lab Samp ID: VG39C01B                    Dilution Factor: 1
Lab File ID: EC03004A                    Matrix: WATER
Ext Btch ID: 22VG39C01                  % Moisture: NA
Calib. Ref.: EC03003A                   Instrument ID: 39
=====

```

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| GASOLINE             | ND                | 0.020        | 0.010         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| Bromofluorobenzene   | 0.0334            | 0.0400       | 84            | 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

EMAX QUALITY CONTROL DATA  
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 990433  
BATCH NO. : 22C035  
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : MBLK1W                             LCS1W         LCD1W
LAB SAMPLE ID : VG39C01B                         VG39C01L     VG39C01C
LAB FILE ID  : EC03004A                         EC03005A     EC03006A
DATE PREPARED : 03/03/22 13:31                 03/03/22 14:08 03/03/22 14:44
DATE ANALYZED : 03/03/22 13:31                 03/03/22 14:08 03/03/22 14:44
PREP BATCH   : 22VG39C01                       22VG39C01    22VG39C01
CALIBRATION REF: EC03003A                       EC03003A     EC03003A
  
```

ACCESSION:

| PARAMETERS | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | SpikeAmt<br>(mg/L) | LCDResult<br>(mg/L) | LCDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%) | MaxRPD<br>(%) |
|------------|--------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Gasoline   | ND                 | 0.500              | 0.466               | 93            | 0.500              | 0.465               | 93            | 0          | 60-130         | 30            |

| SURROGATE PARAMETER | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | SpikeAmt<br>(mg/L) | LCDResult<br>(mg/L) | LCDRec<br>(%) | QCLimit<br>(%) |
|---------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|----------------|
| Bromofluorobenzene  | 0.0400             | 0.0400              | 100           | 0.0400             | 0.0413              | 103           | 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 : 990425  
BATCH NO. : 22C036  
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202203020788                       202203020788MS 202203020788MSD
LAB SAMPLE ID : C036-01                           C036-01M      C036-01S
LAB FILE ID  : EC03018A                           EC03019A      EC03020A
DATE PREPARED : 03/03/22 22:05                     03/03/22 22:42 03/03/22 23:18
DATE ANALYZED : 03/03/22 22:05                     03/03/22 22:42 03/03/22 23:18
PREP BATCH   : 22VG39C01                           22VG39C01     22VG39C01
CALIBRATION REF: EC03014A                           EC03014A      EC03014A
  
```

ACCESSION:

| PARAMETERS | PSResult<br>(mg/L) | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%) | MaxRPD<br>(%) |
|------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Gasoline   | ND                 | 0.500              | 0.466              | 93           | 0.500              | 0.458               | 92            | 2          | 50-130         | 30            |

| SURROGATE PARAMETER | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | QCLimit<br>(%) |
|---------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|----------------|
| Bromofluorobenzene  | 0.0400             | 0.0434             | 109          | 0.0400             | 0.0468              | 117           | 60-140         |

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

990433

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22C035

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 990433

SDG : 22C035

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 03/03/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

The sample was analyzed within the prescribed holding time.

Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSC008WB - 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 DSC008WL. Refer to LCS summary form for details.

Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22C036-01M/22C036-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

## CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 990433

SDG : 22C035

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

One(1) water sample was received on 03/03/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

#### Holding Time

The sample was analyzed within the prescribed holding time.

#### Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

#### Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSC008WB - 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 J5C008WL. Refer to LCS summary form for details.

#### Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. JP5 was within MS QC limits in 22C036-01M/22C036-01S. Refer to Matrix QC summary form for details.

#### Surrogate

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

#### Sample Analysis

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

## CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 990433

SDG : 22C035

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

One(1) water sample was received on 03/03/22 to be analyzed for Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

#### Holding Time

The sample was analyzed within the prescribed holding time.

#### Calibration

Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

#### Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSC008WB - 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 J8C008WL. Refer to LCS summary form for details.

#### Matrix QC Sample

Matrix spike sample was prepared and analyzed at a frequency required by the project. One(1) set of MS/MSD was analyzed. JP8 was within MS QC limits in 22C036-01M/22C036-01S. Refer to Matrix QC summary form for details.

#### Surrogate

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

#### Sample Analysis

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

LAB CHRONICLE  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project    : 990433
SDG NO.   : 22C035
Instrument ID : D5
=====
  
```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | WATER              |                      |                | Extraction Date/Time | Sample Data FN | Calibration Data FN      | Prep. Batch | Notes |
|------------------|----------------------|-----------------|---------|--------------------|----------------------|----------------|----------------------|----------------|--------------------------|-------------|-------|
|                  |                      |                 |         | Analysis Date/Time | Extraction Date/Time | Sample Data FN |                      |                |                          |             |       |
| MBLK1W           | DSC008WB             | 1               | NA      | 03/08/2215:08      | 03/07/2211:45        | LC08009A       | LC08003A             | 22DSC008W      | Method Blank             |             |       |
| LCS1W            | DSC008WL             | 1               | NA      | 03/08/2215:26      | 03/07/2211:45        | LC08010A       | LC08003A             | 22DSC008W      | Lab Control Sample (LCS) |             |       |
| 202203020846     | C035-01              | 1               | NA      | 03/08/2216:58      | 03/07/2211:45        | LC08015A       | LC08003A             | 22DSC008W      | Field Sample             |             |       |

```

FN      - Filename
% Moist - Percent Moisture
  
```



LAB CHRONICLE  
PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project     : 990433
SDG NO.    : 22C035
Instrument ID : D5
=====

```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | WATER             |               |             | Extraction DateTime | Sample Data FN | Calibration Data FN      | Notes |
|------------------|----------------------|-----------------|---------|-------------------|---------------|-------------|---------------------|----------------|--------------------------|-------|
|                  |                      |                 |         | Analysis DateTime | Moist         | Prep. Batch |                     |                |                          |       |
| MBLK1W           | DSC008WB             | 1               | NA      | 03/08/2215:08     | 03/07/2211:45 | LC08009A    | LC08004A            | 22DSC008W      | Method Blank             |       |
| LCS1W            | J5C008WL             | 1               | NA      | 03/08/2215:45     | 03/07/2211:45 | LC08011A    | LC08004A            | 22DSC008W      | Lab Control Sample (LCS) |       |
| 202203020846     | C035-01              | 1               | NA      | 03/08/2216:58     | 03/07/2211:45 | LC08015A    | LC08004A            | 22DSC008W      | Field Sample             |       |

```

FN      * Filename
% Moist - Percent Moisture

```

LAB CHRONICLE  
PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project     : 990433
=====
SDG NO.    : 22C035
Instrument ID : D5
=====

```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | WATER              |               |          | Extraction Date/Time | Sample Data FN | Calibration Data FN | Prep. Batch              | Notes |
|------------------|----------------------|-----------------|---------|--------------------|---------------|----------|----------------------|----------------|---------------------|--------------------------|-------|
|                  |                      |                 |         | Analysis Date/Time | Moist         | % Moist  |                      |                |                     |                          |       |
| MBLK1W           | DSC008WB             | 1               | NA      | 03/08/2215:08      | 03/07/2211:45 | LC08009A | LC08005A             | 22DSC008W      | 22DSC008W           | Method Blank             |       |
| LCS1W            | J8C008WL             | 1               | NA      | 03/08/2216:03      | 03/07/2211:45 | LC08012A | LC08005A             | 22DSC008W      | 22DSC008W           | Lab Control Sample (LCS) |       |
| 202203020846     | C035-01              | 1               | NA      | 03/08/2216:58      | 03/07/2211:45 | LC08015A | LC08005A             | 22DSC008W      | 22DSC008W           | Field Sample             |       |

```

FN      - Filename
% Moist - Percent Moisture

```

# SAMPLE RESULTS

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 02/28/22 09:15
Project     : 990433                      Date Received: 03/03/22
Batch No.   : 22C035                      Date Extracted: 03/07/22 11:45
Sample ID   : 202203020846               Date Analyzed: 03/08/22 16:58
Lab Samp ID : 22C035-01                   Dilution Factor: 1
Lab File ID : LC08015A                    Matrix: WATER
Ext Btch ID : 22DSC008W                   % Moisture: NA
Calib. Ref.: LC08003A                     Instrument ID: D5
=====

```

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| Diesel               | ND                | 0.026        | 0.013         |          |
| Motor Oil            | ND                | 0.052        | 0.026         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| Bromobenzene         | 0.400             | 0.520        | 77            | 60-130   |
| Hexacosane           | 0.151             | 0.130        | 116           | 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 : 960ml Final Volume : 5ml  
Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 02/28/22 09:15
Project     : 990433                     Date Received: 03/03/22
Batch No.   : 22C035                     Date Extracted: 03/07/22 11:45
Sample ID   : 202203020846              Date Analyzed: 03/08/22 16:58
Lab Samp ID : 22C035-01                  Dilution Factor: 1
Lab File ID : LC08015A                   Matrix: WATER
Ext Btch ID : 22DSC008W                  % Moisture: NA
Calib. Ref. : LC08004A                   Instrument ID: D5
=====
    
```

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| JP5                  | ND                | 0.052        | 0.026         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| Bromobenzene         | 0.400             | 0.520        | 77            | 60-130   |
| Hexacosane           | 0.151             | 0.130        | 116           | 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 : 960ml                      Final Volume : 5ml  
 Prepared by : P0reto                      Analyzed by : SDeeso

METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 02/28/22 09:15
Project    : 990433                       Date Received: 03/03/22
Batch No.  : 22C035                       Date Extracted: 03/07/22 11:45
Sample ID  : 202203020846                Date Analyzed: 03/08/22 16:58
Lab Samp ID: 22C035-01                   Dilution Factor: 1
Lab File ID: LC08015A                    Matrix: WATER
Ext Btch ID: 22DSC008W                   % Moisture: NA
Calib. Ref.: LC08005A                    Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |
|------------|-------------------|--------------|---------------|
| JP8        | ND                | 0.052        | 0.026         |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene         | 0.400  | 0.520   | 77        | 60-130   |
| Hexacosane           | 0.151  | 0.130   | 116       | 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 : 960ml                      Final Volume : 5ml  
 Prepared by : POrto                        Analyzed by : SDeeso

# QC SUMMARIES

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/07/22 11:45
Project     : 990433                     Date Received: 03/07/22
Batch No.   : 22C035                     Date Extracted: 03/07/22 11:45
Sample ID   : MBLK1W                     Date Analyzed: 03/08/22 15:08
Lab Samp ID : DSC008WB                   Dilution Factor: 1
Lab File ID : LC08009A                   Matrix: WATER
Ext Btch ID : 22DSC008W                 % Moisture: NA
Calib. Ref. : LC08003A                   Instrument ID: D5
=====

```

| PARAMETERS           | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |          |
|----------------------|-------------------|--------------|---------------|----------|
| Diesel               | ND                | 0.025        | 0.012         |          |
| Motor Oil            | ND                | 0.050        | 0.025         |          |
| SURROGATE PARAMETERS | RESULT            | SPK_AMT      | %RECOVERY     | QC LIMIT |
| Bromobenzene         | 0.375             | 0.500        | 75            | 60-130   |
| Hexacosane           | 0.134             | 0.125        | 107           | 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 : P0reto                              Analyzed by : SDeeso



EMAX QUALITY CONTROL DATA  
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 990433  
BATCH NO. : 22C035  
METHOD : 3520C/8015B

=====

|                  |                  |                |
|------------------|------------------|----------------|
| MATRIX           | : WATER          | % MOISTURE:NA  |
| DILUTION FACTOR: | 1                | 1              |
| SAMPLE ID        | : MBLK1W         | LCS1W          |
| LAB SAMPLE ID    | : DSC008WB       | DSC008WL       |
| LAB FILE ID      | : LC08009A       | LC08010A       |
| DATE PREPARED    | : 03/07/22 11:45 | 03/07/22 11:45 |
| DATE ANALYZED    | : 03/08/22 15:08 | 03/08/22 15:26 |
| PREP BATCH       | : 22DSC008W      | 22DSC008W      |
| CALIBRATION REF: | LC08003A         | LC08003A       |

ACCESSION:

| PARAMETERS | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|------------|--------------------|--------------------|---------------------|---------------|----------------|
| Diesel     | ND                 | 2.50               | 2.50                | 100           | 50-130         |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.500              | 0.432               | 86            | 60-130         |
| Hexacosane           | 0.125              | 0.147               | 118           | 60-130         |

MB: Method Blank sample    LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 990425  
BATCH NO. : 22C036  
METHOD : 3520C/8015B

|                  |                  |                |                 |
|------------------|------------------|----------------|-----------------|
| MATRIX           | : WATER          |                | % MOISTURE:NA   |
| DILUTION FACTOR: | 1                | 1              | 1               |
| SAMPLE ID        | : 202203020788   | 202203020788MS | 202203020788MSD |
| LAB SAMPLE ID    | : 22C036-01      | 22C036-01M     | 22C036-01S      |
| LAB FILE ID      | : LC08016A       | LC08017A       | LC08018A        |
| DATE PREPARED    | : 03/07/22 11:45 | 03/07/22 11:45 | 03/07/22 11:45  |
| DATE ANALYZED    | : 03/08/22 17:16 | 03/08/22 17:35 | 03/08/22 17:53  |
| PREP BATCH       | : 22DSC008W      | 22DSC008W      | 22DSC008W       |
| CALIBRATION REF: | LC08003A         | LC08003A       | LC08003A        |

ACCESSION:

| PARAMETERS | PSResult<br>(mg/L) | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%) | MaxRPD<br>(%) |
|------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Diesel     | ND                 | 2.53               | 2.37               | 94           | 2.53               | 2.44                | 97            | 3          | 50-130         | 30            |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.505              | 0.451              | 89           | 0.505              | 0.448               | 89            | 60-130         |
| Hexacosane           | 0.126              | 0.147              | 116          | 0.126              | 0.152               | 120           | 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: 03/07/22 11:45
Project    : 990433                       Date Received: 03/07/22
Batch No.  : 22C035                       Date Extracted: 03/07/22 11:45
Sample ID  : MBLK1W                       Date Analyzed: 03/08/22 15:08
Lab Samp ID: DSC008WB                     Dilution Factor: 1
Lab File ID: LC08009A                     Matrix: WATER
Ext Btch ID: 22DSC008W                   % Moisture: NA
Calib. Ref.: LC08004A                    Instrument ID: D5
=====
    
```

| PARAMETERS | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |
|------------|-------------------|--------------|---------------|
| JP5        | ND                | 0.050        | 0.025         |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene         | 0.375  | 0.500   | 75        | 60-130   |
| Hexacosane           | 0.134  | 0.125   | 107       | 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 : P0reto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA  
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 990433  
BATCH NO. : 22C035  
METHOD : 3520C/8015B

=====

|                  |                  |                |
|------------------|------------------|----------------|
| MATRIX           | : WATER          | % MOISTURE:NA  |
| DILUTION FACTOR: | 1                | 1              |
| SAMPLE ID        | : MBLK1W         | LCS1W          |
| LAB SAMPLE ID    | : DSC008WB       | J5C008WL       |
| LAB FILE ID      | : LC08009A       | LC08011A       |
| DATE PREPARED    | : 03/07/22 11:45 | 03/07/22 11:45 |
| DATE ANALYZED    | : 03/08/22 15:08 | 03/08/22 15:45 |
| PREP BATCH       | : 22DSC008W      | 22DSC008W      |
| CALIBRATION REF: | LC08004A         | LC08004A       |

ACCESSION:

| PARAMETERS | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|------------|--------------------|--------------------|---------------------|---------------|----------------|
| -----      | -----              | -----              | -----               | -----         | -----          |
| JP5        | ND                 | 2.50               | 2.69                | 108           | 30-160         |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|---------------------|---------------|----------------|
| -----                | -----              | -----               | -----         | -----          |
| Bromobenzene         | 0.500              | 0.471               | 94            | 60-130         |
| Hexacosane           | 0.125              | 0.146               | 117           | 60-130         |

=====

MB: Method Blank sample    LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 990425  
BATCH NO. : 22C036  
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202203020788                       202203020788MSD
LAB SAMPLE ID : 22C036-01                         22C036-01S
LAB FILE ID  : LC08016A                          LC08020A
DATE PREPARED : 03/07/22 11:45                   03/07/22 11:45
DATE ANALYZED : 03/08/22 17:16                   03/08/22 18:30
PREP BATCH   : 22DSC008W                         22DSC008W
CALIBRATION REF: LC08004A                        LC08004A
  
```

ACCESSION:

| PARAMETERS | PSResult<br>(mg/L) | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%) | MaxRPD<br>(%) |
|------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| JP5        | ND                 | 2.50               | 2.26               | 90           | 2.50               | 2.71                | 108           | 18         | 30-160         | 30            |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.500              | 0.398              | 80           | 0.500              | 0.459               | 92            | 60-130         |
| Hexacosane           | 0.125              | 0.146              | 117          | 0.125              | 0.141               | 113           | 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: 03/07/22 11:45
Project     : 990433                     Date Received: 03/07/22
Batch No.   : 22C035                     Date Extracted: 03/07/22 11:45
Sample ID   : MBLK1W                     Date Analyzed: 03/08/22 15:08
Lab Samp ID: DSC008WB                    Dilution Factor: 1
Lab File ID: LC08009A                    Matrix: WATER
Ext Btch ID: 22DSC008W                   % Moisture: NA
Calib. Ref.: LC08005A                    Instrument ID: D5
=====
  
```

| PARAMETERS | RESULTS<br>(mg/L) | RL<br>(mg/L) | MDL<br>(mg/L) |
|------------|-------------------|--------------|---------------|
| JP8        | ND                | 0.050        | 0.025         |

| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT |
|----------------------|--------|---------|-----------|----------|
| Bromobenzene         | 0.375  | 0.500   | 75        | 60-130   |
| Hexacosane           | 0.134  | 0.125   | 107       | 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 : P0reto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA  
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 990433  
BATCH NO. : 22C035  
METHOD : 3520C/8015B

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|                  |                  |                |
|------------------|------------------|----------------|
| MATRIX           | : WATER          | % MOISTURE:NA  |
| DILUTION FACTOR: | 1                | 1              |
| SAMPLE ID        | : MBLK1W         | LCS1W          |
| LAB SAMPLE ID    | : DSC008WB       | J8C008WL       |
| LAB FILE ID      | : LC08009A       | LC08012A       |
| DATE PREPARED    | : 03/07/22 11:45 | 03/07/22 11:45 |
| DATE ANALYZED    | : 03/08/22 15:08 | 03/08/22 16:03 |
| PREP BATCH       | : 22DSC008W      | 22DSC008W      |
| CALIBRATION REF: | LC08005A         | LC08005A       |

ACCESSION:

| PARAMETERS | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|------------|--------------------|--------------------|---------------------|---------------|----------------|
| JP8        | ND                 | 2.50               | 2.48                | 99            | 30-160         |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.500              | 0.484               | 97            | 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 : 990425  
BATCH NO. : 22C036  
METHOD : 3520C/8015B

|                  |                  |                |                 |
|------------------|------------------|----------------|-----------------|
| MATRIX           | : WATER          |                | % MOISTURE:NA   |
| DILUTION FACTOR: | 1                | 1              | 1               |
| SAMPLE ID        | : 202203020788   | 202203020788MS | 202203020788MSD |
| LAB SAMPLE ID    | : 22C036-01      | 22C036-01M     | 22C036-01S      |
| LAB FILE ID      | : LC08016A       | LC08021A       | LC08022A        |
| DATE PREPARED    | : 03/07/22 11:45 | 03/07/22 11:45 | 03/07/22 11:45  |
| DATE ANALYZED    | : 03/08/22 17:16 | 03/08/22 18:49 | 03/08/22 19:07  |
| PREP BATCH       | : 22DSC008W      | 22DSC008W      | 22DSC008W       |
| CALIBRATION REF: | LC08005A         | LC08005A       | LC08005A        |

ACCESSION:

| PARAMETERS | PSResult<br>(mg/L) | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | RPD<br>(%) | QCLimit<br>(%) | MaxRPD<br>(%) |
|------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| JP8        | ND                 | 2.75               | 2.96               | 108          | 2.78               | 2.86                | 103           | 3          | 30-160         | 30            |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | MSResult<br>(mg/L) | MSRec<br>(%) | SpikeAmt<br>(mg/L) | MSDResult<br>(mg/L) | MSDRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.550              | 0.639              | 116          | 0.555              | 0.548               | 99            | 60-130         |
| Hexacosane           | 0.138              | 0.156              | 113          | 0.139              | 0.153               | 110           | 60-130         |

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