

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
04/06/2022

Rinda Seddas
EUROFINS EATON
ANALYTICAL, LLC



Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 993224
Project: RED-HILL
Group: TPH-8015_RED-HILL (2022) Weekly

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

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

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

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

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

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

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

STATE CERTIFICATION LIST

| State | Certification Number | State | Certification Number |
|------------------|----------------------|---|----------------------|
| Alabama | 41060 | Montana | Cert 0035 |
| Arizona | AZ0778 | Nebraska | NE-OS-21-13 |
| Arkansas | CA00006 | Nevada | CA00006 |
| California | 2813 | New Hampshire * | 2959 |
| Colorado | CA00006 | New Jersey * | CA 008 |
| Connecticut | PH-0107 | New Mexico | CA00006 |
| Delaware | CA 006 | New York * | 11320 |
| Florida * | E871024 | North Carolina | 06701 |
| Georgia | 947 | North Dakota | R-009 |
| Guam | 21-008R | Ohio - 537.1 | 87786 |
| Hawaii | CA00006 | Oregon * | 4034 |
| Idaho | CA00006 | Pennsylvania * | 68-00565 |
| Illinois | 200033 | Puerto Rico | CA00006 |
| Indiana | C-CA-01 | Rhode Island | LAO00326 |
| Iowa – Asbestos | 413 | South Carolina | 87016 |
| Kansas * | E-10268 | South Dakota | CA11320 |
| Kentucky | 90107 | Tennessee | TN02839 |
| Louisiana * | LA008 | Texas * | T104704230-20-18 |
| Maine | CA00006 | Utah (Primary AB) * | CA00006 |
| Maryland | 224 | Vermont | VT0114 |
| Marianas Islands | MP0004 | Virginia * | 460260 |
| Massachusetts | M-CA006 | Washington | C838 |
| Michigan | 9906 | EPA Region 5 | CA00006 |
| Mississippi | CA00006 | Los Angeles County Sanitation Districts | 10264 |

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2017 Accredited Method List

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

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

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

| Test(s) | Method(s) | Potable Water * | Waste Water |
|---|--|-----------------|-------------|
| Enterococci | Enterolert | x | x |
| Escherichia coli (Enumeration) | SM 9221 B.1 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 #: 993224
 Project: RED-HILL

Sample Group: TPH-8015_RED-HILL (2022) Weekly

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

The following samples were received from you on **March 16, 2022** at 1233. 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 |
|---|---------------------------------|-----------------|
| 202203160688 | HALAWA WELLS P1 (331-023-WL065) | 03/14/2022 0959 |
| (SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil | | |

Test Description

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

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

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

Monrovia _____ °C (Compliance: 4 ± 2 °C)

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

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

SYSTEM
#14774

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: BWS HONOLULU

PROJECT CODE: RED HILL

EEA CLIENT CODE: _____

COC ID: _____

STD _____ 1 wk _____ 3 day _____ 2 day _____ 1 day _____

TAT requested: rush by adv notice only

| SAMPLE DATE | SAMPLE TIME | SAMPLE ID | CLIENT LAB ID | MATRIX | FIELD DATA | FIELD DATA | COMPLIANCE SAMPLES | NON-COMPLIANCE SAMPLES | SAMPLER COMMENTS |
|-------------|-------------|-----------------|---------------|--------|------------|------------|--------------------|------------------------|------------------|
| 03/14/22 | 0859 | Halawa Wells P1 | H10000331-023 | CFW | | | | | |
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COMPLIANCE SAMPLES - Requires state forms

NON-COMPLIANCE SAMPLES REGULATION INVOLVED: _____


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

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

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

*** MATRIX TYPES:** RSW = Raw Surface Water
 RGW = Raw Ground Water

SEAW = Sea Water
 BW = Bottled Water
 WW = Waste Water
 SW = Storm Water
 SO = Soil
 SL = Sludge

SIGNED BY:  **PRINT NAME:** Low Bailey

COMPANY/TITLE: Honolulu Board of Water Supply

DATE: March 14, 2022

TIME: 1200
1233

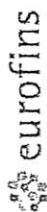
SAMPLED BY: _____

RELINQUISHED BY: _____

RECEIVED BY: *Cham Peck*

RELINQUISHED BY: _____

RECEIVED BY: _____



INTERNAL CHAIN OF CUSTODY RECORD

Eaton Analytical

EEA Folder Number: 447474

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 = 5.6 °C) (Corr. Factor = -0.2 °C) (Final = 5.4 °C)

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

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

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

| | |
|---|---|
| 1 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) | 2 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) |
| 3 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) | 4 = (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C) |

- 4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)
- 5) pH Check. Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____
- 6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results: _____

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

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

Exempt from headspace concerns: Methods 515.4, HAA(6251.652), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

| Samp ID | Bottle # | None/<6 | >6mm | Test | Samp ID | Bottle # | None/<6 | >6mm | Test |
|---------|----------|---------|------|------|---------|----------|---------|------|------|
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Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

| SIGNATURE | PRINT NAME | COMPANY/TITLE | DATE | TIME |
|---------------------------------|--------------|---------------------------|---------|------|
| <u>Chuck Brueck</u> | Chuck Brueck | Eurofins Eaton Analytical | 3.16.22 | 1233 |
| SAMPLES CHECKED AGAINST COC BY: | | Eurofins Eaton Analytical | | |

SHIP DATE: 15MAR22
ACTWGT: 64.00 LB
CAD: 100205419/MNET4460

BILL RECIPIENT

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

TO C CHUCK

EUROFINS EATON ANALYTICAL, INC
750 ROYAL OAKS DR
SUITE 100

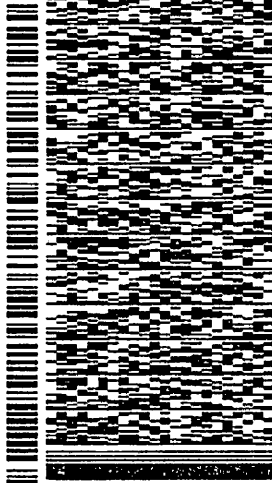
MONROVIA CA 91016 REF.

(626) 386-1178

INV
PO

DEPT.

56DJ5JEB02FE4A



WED - 16 MAR 10:30A

PRIORITY OVERNIGHT

2 of 3

MPS# 7763 0422 7179

0263

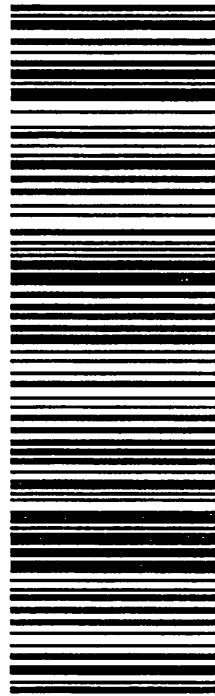
Mstr# 7763 0422 8186

0201

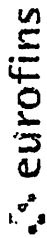
91016
BUR

CA-US

WZ WHPA



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.



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

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3529
(626) 386-1100 FAX (626) 988-3757

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

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 #: 309377

Created By: - [AutoGenerated]
Deliver By: 02/02/2022
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 | |
| Sum Tests: 3 | | Sum Bottles: 11 | |

Comments

~~AIEA WELLS PUMPS 1&2 (260) (201-203 TP400)~~

SAMPLER:

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

SHIPPING:

Travel Blanks - 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 Containmr 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: 993224
Project: RED-HILL
Group: TPH-8015_RED-HILL (2022) Weekly

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

Folder Comments

Results for Gasoline, Diesel and Motor Oil 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: 993224
Project: RED-HILL
Group: TPH-8015_RED-HILL (2022) Weekly

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

Samples Received on:
03/16/2022 1233

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

SUMMARY OF POSITIVE DATA ONLY

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

Laboratory Data

Report: 993224
 Project: RED-HILL
 Group: TPH-8015_RED-HILL (2022) Weekly

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

Samples Received on:
 03/16/2022 1233

| Prepped | Analyzed | Prep Batch | Analytical Batch | Method | Analyte | Result | Units | MRL | Dilution |
|--|----------------|------------|------------------|------------|--------------------------------|-----------------------------------|-------|-------|----------|
| <u>HALAWA WELLS P1 (331-023-WL065) (202203160688)</u> | | | | | | Sampled on 03/14/2022 0959 | | | |
| SW 8015B - (SUB)Gas Fraction Hydrocarbons | | | | | | | | | |
| 03/19/22 | 03/19/22 00:08 | | | (SW 8015B) | (SUB)Gas Fraction Hydrocarbons | ND | mg/L | 0.02 | 1 |
| SW 8015B - TPH 8015 Diesel and Motor Oil | | | | | | | | | |
| 03/21/22 | 03/22/22 20:19 | | | (SW 8015B) | TPH Diesel | ND | mg/L | 0.025 | 1 |
| 03/21/22 | 03/22/22 20:19 | | | (SW 8015B) | TPH Motor Oil | ND | mg/L | 0.051 | 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: 03-28-2022
EMAX Batch No.: 22C220

Attn: Jackie Contreras

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

Subject: Laboratory Report
Project: 993224

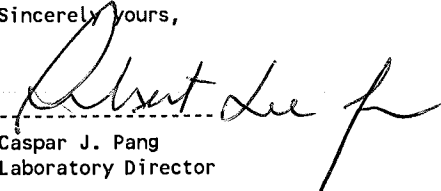
Enclosed is the Laboratory report for samples received on 03/18/22.
The data reported relate only to samples listed below :

| Sample ID | Control # | Col Date | Matrix | Analysis |
|--------------|-----------|----------|--------|--|
| 202203160688 | C220-01 | 03/14/22 | WATER | TPH GASOLINE TPH DIESEL & MOTOR OIL |

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 #: 993224 Report Due: 03/23/2022

Sample ID: 202203160688 Client Sample ID for reference on: HALAWA WELLS P1 (331-023-WL065)

Sample type: SW 8015B Prep Method: EPA 5030C EPA 3550B

Method: SW 8015B Analysis Requested: (SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil

Submittal Form 22C220 Date: 3/18/2022

*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder # 993224 Job # 1000014

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

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

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

Samples from: HAWAII

2-3 day rush

Sample Date & Time: 03/14/22 0959 DW Matrix: DW Clip Code: PWSID: JLS

Sample Point ID: Static ID:

Relinquished by: [Signature] Date: 3/18/22 Time: 11:26

Received by: [Signature] Date: 3/19/22 Time: 11:26

Relinquished by: [Signature] Date: _____ Time: _____

Received by: [Signature] Date: _____ Time: _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Temp. 5.2/4.7, 2.3/1.8, 1.0/0.5

| | | |
|---|---------------------------|--|
| Type of Delivery <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others <input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery | Airbill / Tracking Number | ECN 22C220 Recipient Alan Ramos Date 03/18/22 Time 11:26 |
|---|---------------------------|--|

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) Note: _____ | <input type="checkbox"/> High concentrations expected | <input type="checkbox"/> From Superfund Site | <input type="checkbox"/> Rad screening required | | |

PACKAGING INSPECTION

| | | | |
|--|---|--|---|
| Container *correction | <input checked="" type="checkbox"/> Cooler | <input type="checkbox"/> Box | <input type="checkbox"/> Other |
| Condition Factor: -0.5 | <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 5.2/4.7°C | <input checked="" type="checkbox"/> Cooler 2 23/1.8°C | <input checked="" type="checkbox"/> Cooler 3 1.0/0.5°C |
| Thermometer: _____ | <input type="checkbox"/> Cooler 6 _____ °C | <input type="checkbox"/> Cooler 7 _____ °C | <input type="checkbox"/> Cooler 8 _____ °C |
| | A - S/N _____ | B - S/N _____ | <input checked="" type="checkbox"/> C - S/N 210271399 |
| | | | <input type="checkbox"/> Cooler 4 _____ °C |
| | | | <input type="checkbox"/> Cooler 5 _____ °C |
| | | | <input type="checkbox"/> Cooler 9 _____ °C |
| | | | <input type="checkbox"/> Cooler 10 _____ °C |
| Comments: <input type="checkbox"/> Temperature is out of range. PM was informed IMMEDIATELY. | | | D - S/N _____ |
| Note: _____ | | | |

DISCREPANCIES

| LabSampleID | LabSampleContainerID | Code | ClientSample Label ID / Information | Corrective Action |
|-------------|----------------------|------|--|-------------------|
| 1 | 4-9 | D1 | Jet Fuel 5 Analysis indicated on label, but not on COC | RS |
| | | | | |

pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. **RS 3/18/22**

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? YES NO

LEGEND:

| | | |
|--|--|---|
| <p><input checked="" type="checkbox"/> Analysis is not indicated in <u>COC</u></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>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>D13 Out of Holding Time</p> <p>D14 Bubble is >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>D22 _____</p> <p>D23 _____</p> <p>D24 _____</p> | <p><input type="checkbox"/> Continue to next page.</p> <p>R1 Proceed as indicated in <input type="checkbox"/> COC <input type="checkbox"/> Label</p> <p>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 Informed Client</p> <p>R9 _____</p> <p>R10 _____</p> <p>R11 _____</p> <p>R12 _____</p> |
|--|--|---|

REVIEWS:

Sample Labeling **Maria Rivera** **3/18/22** SRF **Alvin** **3/18/22** PM **RS** **3/18/22**

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

993224

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

SDG#: 22C220

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 993224

SDG : 22C220

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

One(1) water sample was received on 03/18/22 to be analyzed for Total Petroleum Hydrocarbons by Purge and Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time

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. VGH7C06B - 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. VGH7C06L/VGH7C06C 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 C219-01M/C219-01S. Refer to Matrix QC summary form for details.

Surrogate

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

Sample Analysis

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

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
Client       : EUROFINS EATON ANALYTICAL
Project      : 993224
=====
SDG NO.     : 22C220
Instrument ID : H7
=====
```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | Analysis DateTime | Extraction DateTime | Sample Data FN | Calibration Data FN | Prep. Batch | Notes |
|------------------|----------------------|-----------------|---------|-------------------|---------------------|----------------|---------------------|-------------|--------------------------|
| MBLK1W | VGH7C06B | 1 | NA | 03/18/2220:07 | 03/18/2220:07 | AC18017A | AC18016A | 22VGH7C06 | Method Blank |
| LCS1W | VGH7C06L | 1 | NA | 03/18/2220:41 | 03/18/2220:41 | AC18018A | AC18016A | 22VGH7C06 | Lab Control Sample (LCS) |
| LC01W | VGH7C06C | 1 | NA | 03/18/2221:16 | 03/18/2221:16 | AC18019A | AC18016A | 22VGH7C06 | LCS Duplicate |
| 202203160688 | C220-01 | 1 | NA | 03/19/2200:08 | 03/19/2200:08 | AC18024A | AC18016A | 22VGH7C06 | Field Sample |

WATER

```
FN          - Filename
% Moist     - Percent Moisture
```

SAMPLE RESULTS

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

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/14/22 09:59
Project    : 993224                       Date Received: 03/18/22
Batch No.  : 22C220                       Date Extracted: 03/19/22 00:08
Sample ID  : 202203160688                Date Analyzed: 03/19/22 00:08
Lab Samp ID: C220-01                     Dilution Factor: 1
Lab File ID: AC18024A                    Matrix: WATER
Ext Btch ID: 22VGH7C06                   % Moisture: NA
Calib. Ref.: AC18016A                    Instrument ID: H7
=====

```

| 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 | 0.0411 | 0.0400 | 103 | 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: 03/18/22 20:07
Project      : 993224                       Date Received: 03/18/22
Batch No.    : 22C220                       Date Extracted: 03/18/22 20:07
Sample ID    : MBLK1W                       Date Analyzed: 03/18/22 20:07
Lab Samp ID  : VGH7C06B                     Dilution Factor: 1
Lab File ID  : AC18017A                     Matrix: WATER
Ext Btch ID  : 22VGH7C06                   % Moisture: NA
Calib. Ref.: AC18016A                     Instrument ID: H7
=====
```

| 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 | 0.0398 | 0.0400 | 100 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 : 993224
BATCH NO. : 22C220
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : MBLK1W                             LCS1W         LCD1W
LAB SAMPLE ID : VGH7C06B                         VGH7C06L     VGH7C06C
LAB FILE ID  : AC18017A                         AC18018A     AC18019A
DATE PREPARED : 03/18/22 20:07                 03/18/22 20:41 03/18/22 21:16
DATE ANALYZED : 03/18/22 20:07                 03/18/22 20:41 03/18/22 21:16
PREP BATCH   : 22VGH7C06                       22VGH7C06    22VGH7C06
CALIBRATION REF: AC18016A                     AC18016A     AC18016A
  
```

ACCESSION:

| PARAMETERS | MDResult (mg/L) | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Gasoline | ND | 0.500 | 0.525 | 105 | 0.500 | 0.511 | 102 | 3 | 60-130 | 30 |

| SURROGATE PARAMETER | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | QCLimit (%) |
|---------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|----------------|
| Bromofluorobenzene | 0.0400 | 0.0478 | 120 | 0.0400 | 0.0472 | 118 | 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 : 993222
BATCH NO. : 22C219
METHOD : 5030B/8015B

| | | | |
|------------------|------------------|----------------|-----------------|
| MATRIX | : WATER | | % MOISTURE:NA |
| DILUTION FACTOR: | 1 | 1 | 1 |
| SAMPLE ID | : 202203160673 | 202203160673MS | 202203160673MSD |
| LAB SAMPLE ID | : C219-01 | C219-01M | C219-01S |
| LAB FILE ID | : AC18020A | AC18021A | AC18022A |
| DATE PREPARED | : 03/18/22 21:50 | 03/18/22 22:24 | 03/18/22 22:59 |
| DATE ANALYZED | : 03/18/22 21:50 | 03/18/22 22:24 | 03/18/22 22:59 |
| PREP BATCH | : 22VGH7C06 | 22VGH7C06 | 22VGH7C06 |
| CALIBRATION REF: | AC18016A | AC18016A | AC18016A |

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 | 0.503 | 101 | 0.500 | 0.520 | 104 | 3 | 50-130 | 30 |

| SURROGATE PARAMETER | SpikeAmt (mg/L) | MSResult (mg/L) | MSRec (%) | SpikeAmt (mg/L) | MSDResult (mg/L) | MSDRec (%) | QCLimit (%) |
|---------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|----------------|
| Bromofluorobenzene | 0.0400 | 0.0470 | 118 | 0.0400 | 0.0478 | 120 | 60-140 |

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

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

993224

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22C220

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 993224

SDG : 22C220

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 03/18/22 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time

The sample was analyzed within the prescribed holding time.

Calibration

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

Method Blank

Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSC029WB - 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. DSC029WL/DSC029WC 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. One(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 22C219-01M/22C219-01S. 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    : 993224
SDG NO.   : 22C220
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 | | | | | |
| MBLK1W | DSC029WB | 1 | NA | 03/22/2218:29 | 03/21/2210:15 | LC21100A | LC21098A | 22DSC029W | Method Blank | |
| LCS1W | DSC029WL | 1 | NA | 03/22/2218:47 | 03/21/2210:15 | LC21101A | LC21098A | 22DSC029W | Lab Control Sample (LCS) | |
| LCD1W | DSC029WC | 1 | NA | 03/22/2219:05 | 03/21/2210:15 | LC21102A | LC21098A | 22DSC029W | LCS Duplicate | |
| 202203160688 | C220-01 | 1 | NA | 03/22/2220:19 | 03/21/2210:15 | LC21106A | LC21098A | 22DSC029W | Field Sample | |

```

FN      - Filename
% Moist - Percent Moisture

```

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/14/22 09:59
Project     : 993224                      Date Received: 03/18/22
Batch No.   : 22C220                      Date Extracted: 03/21/22 10:15
Sample ID   : 202203160688               Date Analyzed: 03/22/22 20:19
Lab Samp ID : 22C220-01                   Dilution Factor: 1
Lab File ID : LC21106A                    Matrix: WATER
Ext Btch ID : 22DSC029W                   % Moisture: NA
Calib. Ref.: LC21098A                     Instrument ID: D5
=====

```

| PARAMETERS | RESULTS (mg/L) | RL (mg/L) | MDL (mg/L) | | |
|----------------------|-------------------|--------------|---------------|----------|--|
| Diesel | ND | 0.025 | 0.013 | | |
| Motor Oil | ND | 0.051 | 0.025 | | |
| SURROGATE PARAMETERS | RESULT | SPK_AMT | %RECOVERY | QC LIMIT | |
| Bromobenzene | 0.473 | 0.510 | 93 | 60-130 | |
| Hexacosane | 0.153 | 0.127 | 120 | 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 : 980ml Final Volume : 5ml
Prepared by : POrreto Analyzed by : SDeeso

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 03/21/22 10:15
Project     : 993224                       Date Received: 03/21/22
Batch No.   : 22C220                       Date Extracted: 03/21/22 10:15
Sample ID   : MBLK1W                       Date Analyzed: 03/22/22 18:29
Lab Samp ID: DSC029WB                     Dilution Factor: 1
Lab File ID: LC21100A                     Matrix: WATER
Ext Btch ID: 22DSC029W                   % Moisture: NA
Calib. Ref.: LC21098A                     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 | 0.403 | 0.500 | 81 | 60-130 |
| Hexacosane | 0.137 | 0.125 | 109 | 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 : 993224
BATCH NO. : 22C220
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : MBLK1W                             LCS1W           LCD1W
LAB SAMPLE ID : DSC029WB                         DSC029WL       DSC029WC
LAB FILE ID  : LC21100A                          LC21101A       LC21102A
DATE PREPARED : 03/21/22 10:15                   03/21/22 10:15 03/21/22 10:15
DATE ANALYZED : 03/22/22 18:29                   03/22/22 18:47 03/22/22 19:05
PREP BATCH   : 22DSC029W                         22DSC029W     22DSC029W
CALIBRATION REF: LC21098A                        LC21098A      LC21098A
  
```

ACCESSION:

| PARAMETERS | MBResult (mg/L) | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Diesel | ND | 2.50 | 2.48 | 99 | 2.50 | 2.41 | 96 | 3 | 50-130 | 30 |

| SURROGATE PARAMETERS | SpikeAmt (mg/L) | LCSResult (mg/L) | LCSRec (%) | SpikeAmt (mg/L) | LCDResult (mg/L) | LCDRec (%) | QCLimit (%) |
|----------------------|--------------------|---------------------|---------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene | 0.500 | 0.450 | 90 | 0.500 | 0.421 | 84 | 60-130 |
| Hexacosane | 0.125 | 0.143 | 114 | 0.125 | 0.146 | 117 | 60-130 |

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 : 993222
BATCH NO. : 22C219
METHOD : 3520C/8015B

| | | |
|--------------------------------|----------------|-----------------|
| MATRIX : WATER | | % MOISTURE:NA |
| DILUTION FACTOR: 1 | 1 | 1 |
| SAMPLE ID : 202203160673 | 202203160673MS | 202203160673MSD |
| LAB SAMPLE ID : 22C219-01 | 22C219-01M | 22C219-01S |
| LAB FILE ID : LC21103A | LC21104A | LC21105A |
| DATE PREPARED : 03/21/22 10:15 | 03/21/22 10:15 | 03/21/22 10:15 |
| DATE ANALYZED : 03/22/22 19:24 | 03/22/22 19:42 | 03/22/22 20:00 |
| PREP BATCH : 22DSC029W | 22DSC029W | 22DSC029W |
| CALIBRATION REF: LC21098A | LC21098A | LC21098A |

ACCESSION:

| PARAMETERS | PSResult (mg/L) | SpikeAmt (mg/L) | MSResult (mg/L) | MSRec (%) | SpikeAmt (mg/L) | MSDResult (mg/L) | MSDRec (%) | RPD (%) | QCLimit (%) | MaxRPD (%) |
|------------|--------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|------------|----------------|---------------|
| Diesel | ND | 2.78 | 3.04 | 110 | 2.65 | 2.77 | 105 | 9 | 50-130 | 30 |

| SURROGATE PARAMETERS | SpikeAmt (mg/L) | MSResult (mg/L) | MSRec (%) | SpikeAmt (mg/L) | MSDResult (mg/L) | MSDRec (%) | QCLimit (%) |
|----------------------|--------------------|--------------------|--------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene | 0.555 | 0.539 | 97 | 0.530 | 0.498 | 94 | 60-130 |
| Hexacosane | 0.139 | 0.159 | 115 | 0.132 | 0.138 | 104 | 60-130 |

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