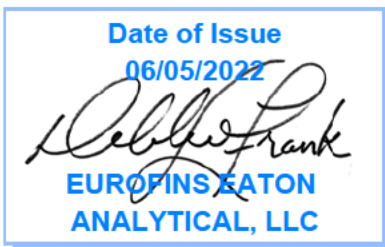


750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

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



Utah ELCP CA00006

DEB: Debbie L Frank  
Project Manager

Report: 998864  
Project: RED-HILL  
Group: Quarterly 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 17025:2017 Accredited Method List

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

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

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

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

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

(+ ) In-House Method

### Acknowledgement of Samples Received

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

Attn: Erwin Kawata  
 Phone: 808-748-5091

Client ID: HONOLULU  
 Folder #: 998864  
 Project: RED-HILL  
 Sample Group: Quarterly 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 **April 13, 2022 at 1500**. 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                                      |
|--------------|---|--|
| 202204130686 | Halawa Shaft Viewing Pool   | 04/11/2022 0930                                  |
|              | @625A_Physis C<br>(SUB)Gas Fraction Hydrocarbons<br>TPH 8015 Jef Fuel 8 | @625BN_Physis C<br>TPH 8015 Diesel and Motor Oil |
|              |   | @625PAH_Physis_TICS_C<br>TPH 8015 Jet Fuel 5     |
| 202204130687 | Travel Blank  | 04/11/2022 0930                                  |
|              | (SUB)Gas Fraction Hydrocarbons  |  |

#### Test Description

- @625A\_Physis C -- 625 Acid Extractable in ug/L
- @625BN\_Physis C -- 625 Base Neutral Extractable in ug/L
- @625PAH\_Physis\_TICS\_C -- 625PAH in ug/L





Eaton Analytical

# CHAIN OF CUSTODY RECORD

998864

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: \_\_\_\_\_

SAMPLES CHECKED AGAINST COC BY: GF

SAMPLES LOGGED IN BY: GS

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  Partially Frozen \_\_\_\_\_ Thawed \_\_\_\_\_

Wet Ice \_\_\_\_\_ No Ice \_\_\_\_\_

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

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: BWS HONOLULU

PROJECT CODE: Red Hill

EEA CLIENT CODE: Honolululu

COC ID: \_\_\_\_\_

TAT requested: rush by adv notice only

STD \_\_\_ 1 wk \_\_\_ X \_\_\_ 3 day \_\_\_ 2 day \_\_\_ 1 day \_\_\_

| SAMPLE DATE | SAMPLE TIME | SAMPLE ID                 | CLIENT LAB ID | MATRIX | FIELD DATA | FIELD DATA | COMPLIANCE SAMPLES                  | NON-COMPLIANCE SAMPLES              | SAMPLER COMMENTS           |
|-------------|-------------|---------------------------|---------------|--------|------------|------------|-------------------------------------|-------------------------------------|----------------------------|
| 4-11-22     | 0830        | Halawa Shaft Viewing Pool |               | RGW    |            |            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                            |
|             |             | Travel Blank              |               | CFW    |            |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                            |
|             |             | Temperature Blank         |               |        |            |            | <input type="checkbox"/>            | <input type="checkbox"/>            | Temp Blank: <u>18.5</u> °C |

COMPLIANCE SAMPLES - Requires state forms  NON-COMPLIANCE SAMPLES  (check for yes)

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)

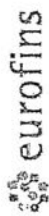
\* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SO = Soil

RGW = Raw Ground Water FW = Other Finished Water SW = Sludge

SEAW = Sea Water BW = Bottled Water

WW = Waste Water SW = Storm Water

| SAMPLED BY:      | SIGNATURE | PRINT NAME   | COMPANY/TITLE                  | DATE       | TIME  |
|------------------|-----------|--------------|--------------------------------|------------|-------|
|                  |           | Derek Dotson | Honolulu Board of Water Supply | 4-11-2022  |       |
| RELINQUISHED BY: |           | Derek Dotson | Honolulu Board of Water Supply | 4-12-2022  | 12:00 |
| RECEIVED BY:     |           | G. REITNER   | EEA                            | 04-13-2022 | 15:00 |
| RELINQUISHED BY: |           |              |                                |            |       |
| RECEIVED BY:     |           |              |                                |            |       |



Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

998864

## SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 1.6 °C) (Corr.Factor = 0.3 °C) (Final = 1.3 °C)

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

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

### Compliance Acceptance Criteria:

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

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

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

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date \_\_\_\_\_ Results: \_\_\_\_\_

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

7) VOA and Radon Headspace:

No Samples with Headspace:

Samples with Headspace (see below):

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

Exempt from headspace concerns: Methods 515-4, HAA(6251,552), 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): \_\_\_\_\_

|                                       |                               |   |                         |                    |
|---------------------------------------|-------------------------------|---|-------------------------|--------------------|
| RECEIVED BY: <u>[Signature]</u>       | PRINT NAME: <u>G. REITNER</u> | COMPANY/TITLE: <u>Eurofins Eaton Analytical</u> | DATE: <u>04.13.2022</u> | TIME: <u>15:00</u> |
| SAMPLES CHECKED AGAINST COC BY: _____ | PRINT NAME: _____             | COMPANY/TITLE: <u>Eurofins Eaton Analytical</u> | DATE: _____             | TIME: _____        |





Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 998864

### SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 1.5 °C) (Corr. Factor = -0.3 °C) (Final = 1.2 °C)

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

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

### Compliance Acceptance Criteria:

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

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

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

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

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

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

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

Exempt from headspace concerns: Methods 515.4, HAA(6251.552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients:

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

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

RECEIVED BY: AGP SIGNATURE: G. REINER PRINT NAME: \_\_\_\_\_ DATE: 04.13.2022 TIME: 15:00

SAMPLES CHECKED AGAINST COC BY: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ PRINT NAME: Eurofins Eaton Analytical DATE: \_\_\_\_\_ TIME: \_\_\_\_\_



Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:  
998864

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 6.2 °C) (Corr. Factor = 0.3 °C) (Final = 5.9 °C)

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

METHOD OF SHIPMENT: Pick-Up / Walk-in (FedEx / UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_)

Compliance Acceptance Criteria:

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

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

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

4) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date \_\_\_\_\_ Results: \_\_\_\_\_

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

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

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

Exempt from headspace concerns: Methods 515.4, HAA(6251.552), 505, SPME, @CH, 532LCMS, 566, 536, Anatoxin, LCMS methods using 40 ml vials, international clients:

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

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

|                                       |                               |   |                         |                    |
|---------------------------------------|-------------------------------|---|-------------------------|--------------------|
| RECEIVED BY: <u>AGH</u>               | PRINT NAME: <u>G. REUTNER</u> | COMPANY/TITLE: <u>Eurofins Eaton Analytical</u> | DATE: <u>04-13-2022</u> | TIME: <u>15:00</u> |
| SAMPLES CHECKED AGAINST COC BY: _____ | SIGNATURE: _____              | COMPANY/TITLE: <u>Eurofins Eaton Analytical</u> | DATE: _____             | TIME: _____        |





Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

998864

### SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 6.0 °C) (Corr.Factor = 0.3 °C) (Final = 5.7 °C)

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

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

### Compliance Acceptance Criteria:

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

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

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

4) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date \_\_\_\_\_ Results: \_\_\_\_\_

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

7) Headspace: \_\_\_\_\_

No Samples with Headspace:

Samples with Headspace (see below):

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

Exempt from headspace concerns: Methods 515-4, HAA(6251,552), 505, SPME,@CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, international clients:

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

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

|                    |            |                           |            |       |
|--------------------|------------|---------------------------|------------|-------|
| SIGNATURE          | PRINT NAME | COMPANY/TITLE             | DATE       | TIME  |
| <u>[Signature]</u> | G. PETER   | Eurofins Eaton Analytical | 04-13-2022 | 15:00 |
| SIGNATURE          | PRINT NAME | COMPANY/TITLE             | DATE       | TIME  |
|                    |            | Eurofins Eaton Analytical |            |       |



Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:  
998864

### SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 4.7 °C) (Corr. Factor = -0.3 °C) (Final = 4.4 °C)

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

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

### Compliance Acceptance Criteria:

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

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

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

4) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date \_\_\_\_\_ Results: \_\_\_\_\_

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

7) VOA and Radon Headspace: \_\_\_\_\_

No Samples with Headspace:

Samples with Headspace (see below):

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

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

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

|                                       |                              |                               |   |                         |                    |
|---------------------------------------|------------------------------|-------------------------------|---|-------------------------|--------------------|
| RECEIVED BY: <u>APR</u>               | SIGNATURE: <u>G. PEITNER</u> | PRINT NAME: <u>G. PEITNER</u> | COMPANY/TITLE: <u>Eurofins Eaton Analytical</u> | DATE: <u>04.13.2022</u> | TIME: <u>15:00</u> |
| SAMPLES CHECKED AGAINST COC BY: _____ | SIGNATURE: _____             | PRINT NAME: _____             | COMPANY/TITLE: <u>Eurofins Eaton Analytical</u> | DATE: _____             | TIME: _____        |





Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number:

998864

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 649A (Observation = 1.9 °C) (Corr. Factor = -0.3 °C) (Final = 1.6 °C)

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

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

### Compliance Acceptance Criteria:

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

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

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

4) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

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

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

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

Exempt from headspace concerns: Methods 515.4, HAA(6251.552), 505, SPME.@CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, international clients:

| Samp ID | Bottle # | Nonel/<6 mm | >6mm | Test | Samp ID | Bottle # | Nonel/<6 mm | >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  |
|           | G. REINER  | Eurofins Eaton Analytical | 04.13.2022 | 15:00 |
| SIGNATURE | PRINT NAME | COMPANY/TITLE             | DATE       | TIME  |
|           |            | Eurofins Eaton Analytical |            |       |

ORIGIN ID: HKA (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: 12APR22  
ACTWGT: 57.00 LB  
CAD: 100205419/IN/ET4460

BILL RECIPIENT

TO B BROOK

EUROFINS EATON ANALYTICAL, INC

750 ROYAL OAKS DR

SUITE 100

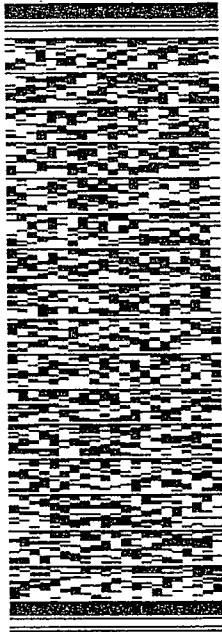
MONROVIA CA 91016

REF: (626) 386-1178

PO: NV:

DEPT:

56DJ2/BDF9/FE4A



1 of 6

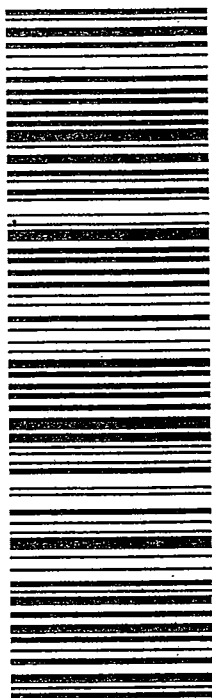
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#0201  
## MASTER ##

WED - 13 APR 10:30A  
PRIORITY OVERNIGHT

WZ WHPA

CA-US 91016  
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BWS CHEM LAB  
HONOLULU BOARD OF WATER SUPPLY  
630 S. BERETANIA ST  
CHEMICAL LABORATORY  
HONOLULU, HI 96843  
UNITED STATES US

SHIP DATE: 12APR22  
ACTWGT: 57.00 LB  
CAD: 100205419/NET/4480

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

REF: (629) 386-1178  
INV: PO: DEPT:

56DJ2/BDF9/FE4A



2 of 6

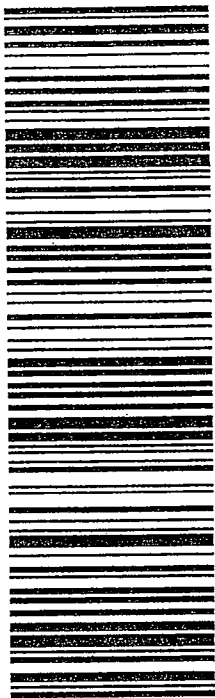
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 BWS CHEM LAB  
 HONOLULU BOARD OF WATER SUPPLY  
 630 S. BERETANIA ST.  
 CHEMICAL LABORATORY  
 HONOLULU, HI 96843  
 UNITED STATES US

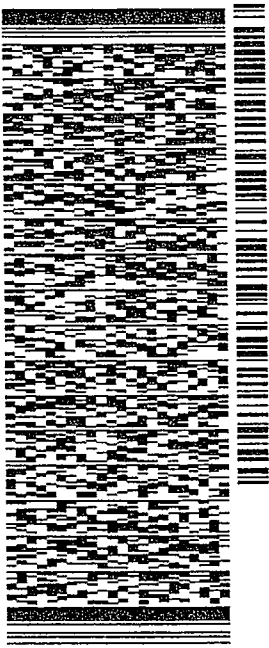
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 ACTWGWT: 57.00 LB  
 CAD: 100205419/IN/ET4460  
 BILL RECIPIENT

TO B BROOK

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

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

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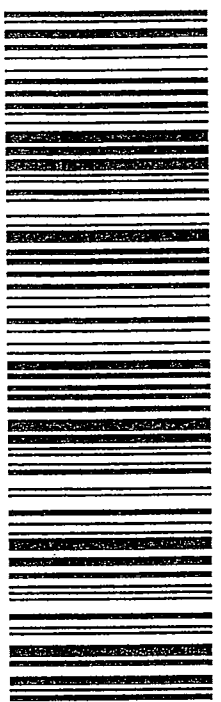
3 of 6

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 MSt# 7765 6481 3515

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 PRIORITY OVERNIGHT

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

SHIP DATE: 12APR22  
ACTWGWT: 57.00 LB  
CAD: 100205419/INNET4460

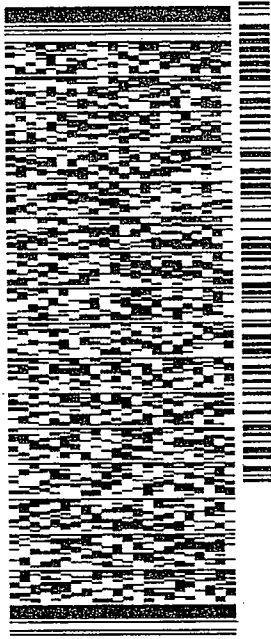
BILL RECIPIENT

TO B BROOK

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

REF: (626) 386-1178

PO: INV: DEPT:



56DJ2/BDF9/FE4A

4 of 6

MP# 7765 6481 3813

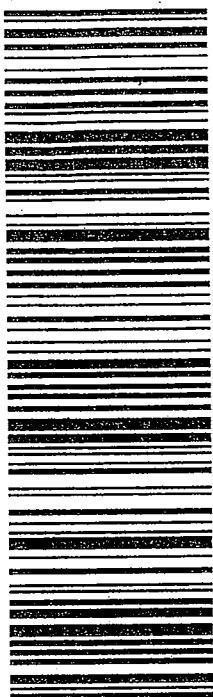
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 BWS CHEM LAB  
 HONOLULU BOARD OF WATER SUPPLY  
 630 S. BERETANIA ST.  
 CHEMICAL LABORATORY  
 HONOLULU HI 96843  
 UNITED STATES US

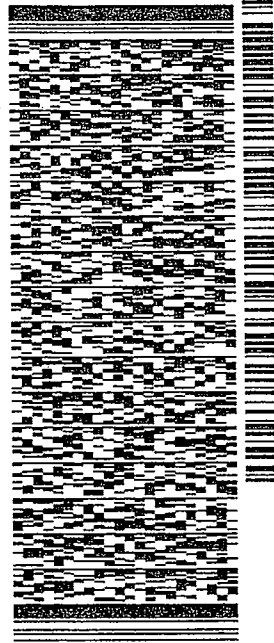
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 CAD: 100205419/NET4460

BILL RECIPIENT

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

56D.J2/BDF9/FE4A



J221022010501uu

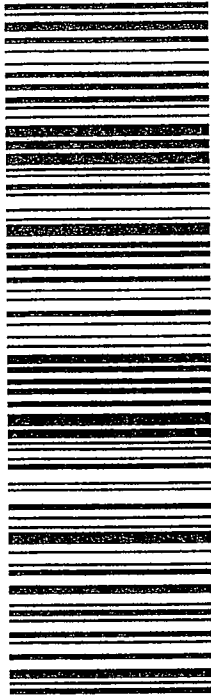
5 of 6

MPS# 7765 6481 3456  
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 MSt# 7765 6481 3515  
 0201

WED - 13 APR 10:30A  
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ORIGIN ID:HIKA (808) 748-5840  
BMS-CHEM-LAB  
HONOLULU BOARD OF WATER SUPPLY  
630 S. BERETANIA ST.  
CHEMICAL LABORATORY  
HONOLULU, HI 96843  
UNITED STATES US

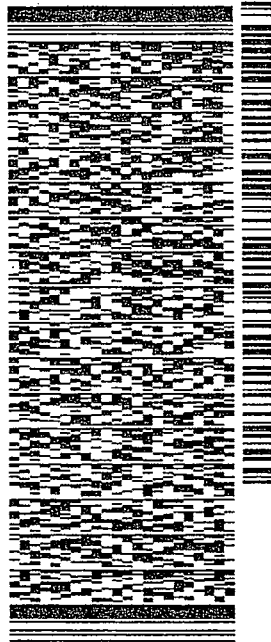
SHIP DATE: 12APR22  
ACTWGT: 57.00 LB  
CAD: 100205419/IN/ET/4460

BILL RECIPIENT

TO B BROOK

EUROFINS EATON ANALYTICAL, INC  
750 ROYAL OAKS DR  
SUITE 100  
MONROVIA CA 91016  
REF: (626) 386-1178  
DEPT:  
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56DJ2/BDF9/FE4A



6 of 6

MPS# 7765 6481 3630  
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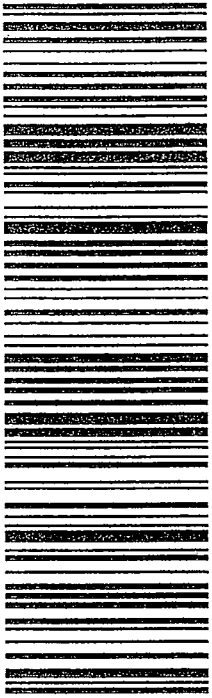
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PRIORITY OVERNIGHT

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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**

Analytical results for TPH 8015 Diesel and Motor Oil, Total Hydrocarbons and Jet Fuel are submitted by Emax Laboratories, Inc. Torrance, CA  
Analytical results for 625 BNA are submitted by Physis Environmental Laboratories, Inc.

Subcontracted Data -- Please review Subcontractor's report in full. EEA enters Subcontractor data into EEA system for archive tracking purposes of final result. See subcontractor's report for Qualifier definition.

ND reporting (subcontract lab reports)

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

Tentatively Identified compounds (TIC).

The analyte has been "tentatively identified" as present and the associated numerical value is the estimated concentration in the sample. The analytes are not positively identified or quantified. Presentation of results in this report does not indicate actual presence of the compound identified in the TIC summary. Information is for study purposes only.

@625mod (Low Level SVOCs by GCMS (PAH/BNA - Base/Neutral/Acid Extractables)  
See subcontractor's report.

Quarterly Red-Hill Expanded List (Albuquerque+) Halawa Shaft Viewing Pool , quarterly testing is reduced due to sampling difficulties to 8015 and 625. COC notes 625BN only (monthly BCEE). Sufficient volume was received to run full 625 (Base Neutral, Acid, and PAH Red-Hill analytes). Report full Quarterly 625s per Erwin Kawata voice call.



Eaton Analytical

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

**Laboratory Hits**

**Report:** 998864  
**Project:** RED-HILL  
**Group:** Quarterly 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:  
04/13/2022 1500

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

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

**Report:** 998864  
**Project:** RED-HILL  
**Group:** Quarterly 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:  
 04/13/2022 1500

| Prepped  | Analyzed       | Prep Batch | Analytical Batch | Method     | Analyte                        | Result                            | Units | MRL   | Dilution |
|--|----------------|------------|------------------|------------|--------------------------------|-----------------------------------|-------|-------|----------|
| <b>Halawa Shaft Viewing Pool (202204130686)</b>  |                |            |                  |            |                                | <b>Sampled on 04/11/2022 0930</b> |       |       |          |
| <b>SW 8015B - (SUB)Gas Fraction Hydrocarbons</b> |                |            |                  |            |                                |                                   |       |       |          |
| 04/14/22   | 04/14/22 23:31 |            |                  | (SW 8015B) | (SUB)Gas Fraction Hydrocarbons | ND                                | mg/L  | 0.02  | 1        |
| <b>SW 8015B - TPH 8015 Diesel and Motor Oil</b>  |                |            |                  |            |                                |                                   |       |       |          |
| 04/18/22   | 04/20/22 00:07 |            |                  | (SW 8015B) | TPH Diesel                     | ND                                | mg/L  | 0.026 | 1        |
| 04/18/22   | 04/20/22 00:07 |            |                  | (SW 8015B) | TPH Motor Oil                  | ND                                | mg/L  | 0.052 | 1        |
| <b>EPA 8015 - Jet Fuel 5 C8-C18</b>              |                |            |                  |            |                                |                                   |       |       |          |
| 04/18/22   | 04/20/22 00:07 |            |                  | (EPA 8015) | Jet Fuel 5                     | ND                                | mg/L  | 0.052 | 1        |
| <b>EPA 625 - 625PAH in ug/L</b>                  |                |            |                  |            |                                |                                   |       |       |          |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | 1-Methylnaphthalene            | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | 1-Methylphenanthrene           | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | 2,3,5-Trimethylnaphthalene     | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | 2,4,6-Trichlorophenol          | ND                                | ug/L  | 0.1   | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | 2,6-Dimethylnaphthalene        | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | 2-Methylnaphthalene            | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Acenaphthene                   | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Acenaphthylene                 | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Anthracene                     | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Benz(a)Anthracene              | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Benzo(a)pyrene                 | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Benzo(b)fluoranthene           | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Benzo(e)pyrene                 | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Benzo(g,h,i)perylene           | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Benzo(k)fluoranthene           | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Biphenyl                       | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Chrysene                       | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Dibenz(a,h)Anthracene          | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Dibenzo(a,l)pyrene             | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Dibenzothiophene               | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Fluoranthene                   | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Fluorene                       | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Indeno(1,2,3,c,d)Pyrene        | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Naphthalene                    | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Pentachlorophenol              | ND                                | ug/L  | 0.1   | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Perylene                       | ND                                | ug/L  | 0.005 | 1        |
| 04/07/22   | 05/13/22 :     |            |                  | (EPA 625)  | Phenanthrene                   | ND                                | ug/L  | 0.005 | 1        |

Rounding on totals after summation.  
 (c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

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

**Report:** 998864  
**Project:** RED-HILL  
**Group:** Quarterly 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:  
 04/13/2022 1500

| Prepped   | Analyzed       | Prep Batch | Analytical Batch | Method     | Analyte                          | Result | Units | MRL   | Dilution |
|---|----------------|------------|------------------|------------|----------------------------------|--------|-------|-------|----------|
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | Pyrene                           | ND     | ug/L  | 0.005 | 1        |
| <b>EPA 8015 - Jet Fuel 8 C8-C18</b>                   |                |            |                  |            |                                  |        |       |       |          |
|   | 04/20/22 00:07 |            |                  | (EPA 8015) | Jet Fuel 8                       | ND     | mg/L  | 0.052 | 1        |
| <b>EPA 625 - 625 Acid Extractable in ug/L</b>         |                |            |                  |            |                                  |        |       |       |          |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2,4,5-Trichlorophenol            | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2,4,6-Trichlorophenol            | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2,4-Dichlorophenol               | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2,4-Dinitrophenol                | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2,6-Dichlorophenol               | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2,6-Di-tert-butyl-4-methylphenol | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2,6-Di-tert-butylphenol          | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2-Chlorophenol                   | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2-Methylphenol                   | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 2-Nitrophenol                    | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 4,6-Dinitro-2-methylphenol       | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 4-Chloro-3-methyl phenol         | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 4-Methylphenol                   | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 4-Nitrophenol                    | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | 6-tert-Butyl-2,4-dimethylphenol  | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | Benzoic acid                     | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | Benzyl alcohol                   | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | pentachlorophenol                | ND     | ug/L  | 0.1   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | Phenol                           | ND     | ug/L  | 0.2   | 1        |
| 04/07/22  | 05/13/22 :     |            |                  | (EPA 625)  | p-tert-Butylphenol               | ND     | ug/L  | 0.1   | 1        |
| <b>EPA 625 - 625 Base Neutral Extractable in ug/L</b> |                |            |                  |            |                                  |        |       |       |          |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | 2-Chloronaphthalene              | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | 2-Nitroaniline                   | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | 3-Nitroaniline                   | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | 4-Bromophenylphenyl Ether        | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | 4-Chlorophenylphenyl Ether       | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | 4-Nitroaniline                   | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | Aniline                          | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | Benzidine                        | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | bis(2-Chloroethoxy)methane       | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | bis(2-Chloroethyl)ether          | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | bis(2-Chloroisopropyl) ether     | ND     | ug/L  | 0.1   | 1        |
| 04/14/22  | 05/13/22 00:00 |            |                  | (EPA 625)  | Dibenzofuran                     | ND     | ug/L  | 0.1   | 1        |

Rounding on totals after summation.  
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 1 800 566 LABS (1 800 566 5227)

Laboratory Data

**Report:** 998864  
**Project:** RED-HILL  
**Group:** Quarterly 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:  
 04/13/2022 1500

| Prepped  | Analyzed       | Prep Batch | Analytical Batch | Method    | Analyte                       | Result | Units | MRL | Dilution |
|----------|----------------|------------|------------------|-----------|-------------------------------|--------|-------|-----|----------|
| 04/14/22 | 05/13/22 00:00 |            |                  | (EPA 625) | Disalicylideneopropanediamine | ND     | ug/L  | 0.1 | 1        |
| 04/14/22 | 05/13/22 00:00 |            |                  | (EPA 625) | Hexachloroethane              | ND     | ug/L  | 0.1 | 1        |
| 04/14/22 | 05/13/22 00:00 |            |                  | (EPA 625) | Nitrobenzene                  | ND     | ug/L  | 0.1 | 1        |
| 04/14/22 | 05/13/22 00:00 |            |                  | (EPA 625) | N-Nitrosodi-N-propylamine     | ND     | ug/L  | 0.1 | 1        |
| 04/14/22 | 05/13/22 00:00 |            |                  | (EPA 625) | N-Nitrosodiphenylamine        | ND     | ug/L  | 0.1 | 1        |
| 04/14/22 | 05/13/22 00:00 |            |                  | (EPA 625) | p-Chloroaniline               | ND     | ug/L  | 0.1 | 1        |

**Travel Blank (202204130687)**

**Sampled on 04/11/2022 0930**

**SW 8015B - (SUB)Gas Fraction Hydrocarbons**

|          |                |  |  |            |                                |    |      |      |   |
|----------|----------------|--|--|------------|--------------------------------|----|------|------|---|
| 04/15/22 | 04/15/22 00:44 |  |  | (SW 8015B) | (SUB)Gas Fraction Hydrocarbons | ND | mg/L | 0.02 | 1 |
|----------|----------------|--|--|------------|--------------------------------|----|------|------|---|

Rounding on totals after summation.  
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May 26, 2022

Debbie Frank  
 Eurofins Eaton Analytical  
 750 Royal Oaks Drive  
 Suite 100  
 Monrovia, CA 91016-

Project Name: Folder # 998864 Job # 1000014  
 Physis Project ID: 1407003-236

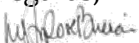
Dear Debbie,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 4/14/2022. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

| Organics  |
|---|
| Polynuclear Aromatic Hydrocarbons by EPA 625.1  |
| Disalicylidenepropanediamine by EPA 625.1       |
| Dibenzo [a,l] Pyrene w/ PAHs by EPA 625.1       |
| Base/Neutral Extractable Compounds by EPA 625.1 |
| Acid Extractable Compounds w/ PAHs by EPA 625.1 |
| 6-tert-Butyl-2,4-dimethylphenol by EPA 625.1    |
| 2,6-Di-tert-butylphenol by EPA 625.1            |
| 2,6-Di-tert-butyl-4-methylphenol by EPA 625.1   |
| p-tert-Butylphenol by EPA 625.1                 |

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,  
  
 Misty Mercier  
 714 602-5320  
 Extension 202  
 mistymercier@physislabs.com

## PROJECT SAMPLE LIST

Eurofins Eaton Analytical

PHYSIS Project ID: 1407003-236

Folder # 998864 Job # 1000014

Total Samples: 1

| PHYSIS ID | Sample ID    | Description               | Date      | Time | Matrix      | Sample Type   |
|-----------|--------------|---------------------------|-----------|------|-------------|---------------|
| 96419     | 202204130686 | Halawa Shaft Viewing Pool | 4/11/2022 | 9:30 | Samplewater | Not Specified |

## ABBREVIATIONS and ACRONYMS

|      |  |
|------|--|
| QM   | Quality Manual                         |
| QA   | Quality Assurance                      |
| QC   | Quality Control                        |
| MDL  | method detection limit                 |
| RL   | reporting limit                        |
| R1   | project sample                         |
| R2   | project sample replicate               |
| MS1  | matrix spike                           |
| MS2  | matrix spike replicate                 |
| B1   | procedural blank                       |
| B2   | procedural blank replicate             |
| BS1  | blank spike                            |
| BS2  | blank spike replicate                  |
| LCS1 | laboratory control spike               |
| LCS2 | laboratory control spike replicate     |
| LCM1 | laboratory control material            |
| LCM2 | laboratory control material replicate  |
| CRM1 | certified reference material           |
| CRM2 | certified reference material replicate |
| RPD  | relative percent difference            |
| LMW  | low molecular weight                   |
| HMW  | high molecular weight                  |

## QUALITY ASSURANCE SUMMARY

**LABORATORY BATCH:** Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

**PROCEDURAL BLANK:** Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

**ACCURACY:** Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

**PRECISION:** Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS<sub>1</sub>/MS<sub>2</sub>, BS<sub>1</sub>/BS<sub>2</sub>, LCS<sub>1</sub>/LCS<sub>2</sub>, LCM<sub>1</sub>/LCM<sub>2</sub>, CRM<sub>1</sub>/CRM<sub>2</sub>, surrogate spikes and/or replicate project sample analysis (R<sub>1</sub>/R<sub>2</sub>) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

**BLANK SPIKES:** BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

**MATRIX SPIKES:** MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

**CERTIFIED REFERENCE MATERIALS:** CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

**LABORATORY CONTROL MATERIAL:** LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

**LABORATORY CONTROL SPIKES:** LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

**SURROGATES:** A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

**HOLDING TIME:** Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

**SAMPLE STORAGE/RETENTION:** In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

**TOTAL/DISSOLVED FRACTION:** In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

## PHYSIS QUALIFIER CODES

| CODE | DEFINITION  |
|------|---|
| #    | see Case Narrative  |
| ND   | analyte not detected at or above the MDL  |
| B    | analyte was detected in the procedural blank greater than 10 times the MDL  |
| E    | analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated  |
| H    | sample received and/or analyzed past the recommended holding time   |
| J    | analyte was detected at a concentration below the RL and above the MDL, reported value is estimated   |
| N    | insufficient sample, analysis could not be performed  |
| M    | analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification  |
| SH   | analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply  |
| SL   | analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply  |
| NH   | project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply  |
| Q    | analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification  |
| R    | Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples |



## CASE NARRATIVE

### QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

#### **ND**

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

# PERFORMANCE ANALYTICALS REPOR T

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## Acid Extractable Compounds

| ANALYTE  | Method    | Units      | RESULT | DF | MDL  | RL  | Fraction | QA CODE | Batch ID       | Date Processed      | Date Analyzed |
|--|-----------|------------|--------|----|------|-----|----------|---------|----------------|---------------------|---------------|
| <b>Sample ID: 96419-R1 202204130686 Halawa Shaft View1 Matrix: Samplewater</b> |           |            |        |    |      |     |          |         |                |                     |               |
| (2,4,6-Tribromophenol)   | EPA 625.1 | % Recovery | 56     | 1  |      |     | Total    | O-35138 | 11-Apr-22 9:30 | Received: 14-Apr-22 | 14-Apr-22     |
| (d5-Phenol)  | EPA 625.1 | % Recovery | 23     | 1  |      |     | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,4,5-Trichlorophenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,4,6-Trichlorophenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,4-Dichlorophenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,4-Dinitrophenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,6-Dichlorophenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,6-Di-tert-butyl-4-methylphenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,6-Di-tert-butylphenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2-Chlorophenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2-Methyl-4,6-dinitrophenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2-Methylphenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2-Nitrophenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 3+4-Methylphenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 4-Chloro-3-methylphenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 4-Nitrophenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 6-tert-butyl-2,4-dimethylphenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benzoic Acid   | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benzyl Alcohol   | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Pentachlorophenol  | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Phenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.1  | 0.2 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| p-tert-Butylphenol   | EPA 625.1 | µg/L       | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |

## Base/Neutral Extractable Compounds

| ANALYTE  | Method    | Units | RESULT | DF | MDL  | RL  | Fraction | QA CODE | Batch ID  | Date Processed | Date Analyzed |
|--|-----------|-------|--------|----|------|-----|----------|---------|-----------|----------------|---------------|
| <b>Sample ID: 96419-R1 202204130686 Halawa Shaft Viewi Matrix: Samplewater</b> |           |       |        |    |      |     |          |         |           |                |               |
| 2-Chloronaphthalene  | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 11-Apr-22 | 9:30           | 14-Apr-22     |
| 2-Nitroaniline   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| 3-Nitroaniline   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| 4-Bromophenylphenyl ether  | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| 4-Chloroaniline  | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| 4-Chlorophenylphenyl ether   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| 4-Nitroaniline   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Aniline  | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Benzidine  | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Bis(2-Chloroethoxy) methane  | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Bis(2-Chloroethyl) ether   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Bis(2-Chloroisopropyl) ether   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| D benzofuran   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Disalicylidenepropanediamine   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Hexachloroethane   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| Nitrobenzene   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| N-Nitrosodi-n-propylamine  | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |
| N-Nitrosodiphenylamine   | EPA 625.1 | µg/L  | ND     | 1  | 0.05 | 0.1 | Total    | O-35138 | 14-Apr-22 |                | 13-May-22     |

## Polynuclear Aromatic Hydrocarbons

| ANALYTE  | Method    | Units      | RESULT | DF | MDL   | RL    | Fraction | QA CODE | Batch ID       | Date Processed      | Date Analyzed |
|--|-----------|------------|--------|----|-------|-------|----------|---------|----------------|---------------------|---------------|
| <b>Sample ID: 96419-R1 202204130686 Halawa Shaft Viewi Matrix: Samplewater</b> |           |            |        |    |       |       |          |         |                |                     |               |
| (d10-Acenaphthene)   | EPA 625.1 | % Recovery | 85     | 1  |       |       | Total    | O-35138 | 11-Apr-22 9:30 | Received: 14-Apr-22 | 14-Apr-22     |
| (d10-Phenanthrene)   | EPA 625.1 | % Recovery | 93     | 1  |       |       | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| (d12-Chrysene)   | EPA 625.1 | % Recovery | 91     | 1  |       |       | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| (d12-Perylene)   | EPA 625.1 | % Recovery | 96     | 1  |       |       | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| (d8-Naphthalene)   | EPA 625.1 | % Recovery | 70     | 1  |       |       | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 1-Methylnaphthalene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 1-Methylphenanthrene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,3,5-Trimethylnaphthalene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2,6-Dimethylnaphthalene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| 2-Methylnaphthalene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Acenaphthene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Acenaphthylene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Anthracene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benz[a]anthracene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benzofluoranthene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benzofluorene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benzofluoranthene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benzofluorene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Benzofluoranthene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Biphenyl   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| Chrysene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| D benz[a,h]anthracene  | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| D benzo[a,l]pyrene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |
| D benzo[ghi]perylene   | EPA 625.1 | µg/L       | ND     | 1  | 0.001 | 0.005 | Total    | O-35138 |                | 14-Apr-22           | 13-May-22     |

## Polynuclear Aromatic Hydrocarbons

| ANALYTE                | Method    | Units | RESULT | DF | MDL   | RL    | Fraction | QA CODE | Batch ID | Date Processed | Date Analyzed |
|------------------------|-----------|-------|--------|----|-------|-------|----------|---------|----------|----------------|---------------|
| Fluoranthene           | EPA 625.1 | µg/L  | ND     | 1  | 0.001 | 0.005 | Total    |         | O-35138  | 14-Apr-22      | 13-May-22     |
| Fluorene               | EPA 625.1 | µg/L  | ND     | 1  | 0.001 | 0.005 | Total    |         | O-35138  | 14-Apr-22      | 13-May-22     |
| Indeno[1,2,3-cd]pyrene | EPA 625.1 | µg/L  | ND     | 1  | 0.001 | 0.005 | Total    |         | O-35138  | 14-Apr-22      | 13-May-22     |
| Naphthalene            | EPA 625.1 | µg/L  | ND     | 1  | 0.001 | 0.005 | Total    |         | O-35138  | 14-Apr-22      | 13-May-22     |
| Perylene               | EPA 625.1 | µg/L  | ND     | 1  | 0.001 | 0.005 | Total    |         | O-35138  | 14-Apr-22      | 13-May-22     |
| Phenanthrene           | EPA 625.1 | µg/L  | ND     | 1  | 0.001 | 0.005 | Total    |         | O-35138  | 14-Apr-22      | 13-May-22     |
| Pyrene                 | EPA 625.1 | µg/L  | ND     | 1  | 0.001 | 0.005 | Total    |         | O-35138  | 14-Apr-22      | 13-May-22     |

# QUALITY CONTROL REPORT

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## Acid Extractable Compounds

## QUALITY CONTROL REPORT

| ANALYTE                                   | FRACTION | RESULT | DF | MDL  | RL  | UNITS      | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC |
|---|----------|--------|----|------|-----|------------|-------------|---------------|------------|-------------|----------|
| Matrix: BlankMatrix                       |          |        |    |      |     |            |             |               |            |             |          |
| Sample ID: 96418-B1 QAQC Procedural Blank |          |        |    |      |     |            |             |               |            |             |          |
| Method: EPA 625.1                         |          |        |    |      |     |            |             |               |            |             |          |
| Batch ID: O-35138                         |          |        |    |      |     |            |             |               |            |             |          |
| Prepared: 07-Apr-22                       |          |        |    |      |     |            |             |               |            |             |          |
| Analyzed: 13-May-22                       |          |        |    |      |     |            |             |               |            |             |          |
| (2,4,6-Tribromophenol)                    | Total    | 56     | 1  |      |     | % Recovery | 100         |               | 56         | 44 - 159%   | PASS     |
| (d5-Phenol)                               | Total    | 75     | 1  |      |     | % Recovery | 100         |               | 75         | 20 - 121%   | PASS     |
| 2,4,5-Trichlorophenol                     | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| 2,4,6-Trichlorophenol                     | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| 2,4-Dichlorophenol                        | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| 2,4-Dinitrophenol                         | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| 2,6-Dichlorophenol                        | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| 2,6-Di-tert-butyl-4-methylphe             | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| 2,6-Di-tert-butylphenol                   | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| 2-Chlorophenol                            | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| 2-Methyl-4,6-dinitrophenol                | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| 2-Methylphenol                            | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| 2-Nitrophenol                             | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| 3+4-Methylphenol                          | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| 4-Chloro-3-methylphenol                   | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| 4-Nitrophenol                             | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| 6-tert-butyl-2,4-dimethylphen             | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| Benzoic Acid                              | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| Benzyl Alcohol                            | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| Pentachlorophenol                         | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |
| Phenol                                    | Total    | ND     | 1  | 0.1  | 0.2 | µg/L       |             |               |            |             |          |
| p-tert-Butylphenol                        | Total    | ND     | 1  | 0.05 | 0.1 | µg/L       |             |               |            |             |          |



## Acid Extractable Compounds

## QUALITY CONTROL REPORT

| ANALYTE  | FRACTION | RESULT | DF | MDL  | RL  | UNITS      | SPIKE LEVEL | SOURCE RESULT | ACCURACY LIMITS | PRECISION % | QA CODEC |
|--|----------|--------|----|------|-----|------------|-------------|---------------|-----------------|-------------|----------|
| <b>Sample ID: 96418-BS1</b> <b>QAQC Procedural Blank</b> <b>Matrix: BlankMatrix</b> <b>Sampled:</b> <b>Received:</b> |          |        |    |      |     |            |             |               |                 |             |          |
| Method: EPA 625.1    Batch ID: O-35138    Prepared: 07-Apr-22    Analyzed: 13-May-22                                 |          |        |    |      |     |            |             |               |                 |             |          |
| (2,4,6-Tribromophenol)   | Total    | 65     | 1  |      |     | % Recovery | 100         | 0             | 65              | 44 - 159%   | PASS     |
| (d5-Phenol)  | Total    | 84     | 1  |      |     | % Recovery | 100         | 0             | 84              | 20 - 121%   | PASS     |
| 2,4,5-Trichlorophenol  | Total    | 0.967  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 97              | 57 - 116%   | PASS     |
| 2,4,6-Trichlorophenol  | Total    | 0.961  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 96              | 56 - 118%   | PASS     |
| 2,4-Dichlorophenol   | Total    | 0.925  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 93              | 51 - 117%   | PASS     |
| 2,4-Dinitrophenol  | Total    | 0.642  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 64              | 0 - 152%    | PASS     |
| 2,6-Dichlorophenol   | Total    | 0.938  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 94              | 30 - 130%   | PASS     |
| 2,6-Di-tert-butyl-4-methylphe  | Total    | 0.708  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 71              | 50 - 150%   | PASS     |
| 2,6-Di-tert-butylphenol  | Total    | 0.825  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 82              | 50 - 150%   | PASS     |
| 2-Chlorophenol   | Total    | 0.883  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 88              | 41 - 110%   | PASS     |
| 2-Methyl-4,6-dinitrophenol   | Total    | 0.707  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 71              | 0 - 141%    | PASS     |
| 2-Methylphenol   | Total    | 1.03   | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 103             | 40 - 117%   | PASS     |
| 2-Nitrophenol  | Total    | 0.862  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 86              | 40 - 117%   | PASS     |
| 3+4-Methylphenol   | Total    | 0.887  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 89              | 0 - 130%    | PASS     |
| 4-Chloro-3-methylphenol  | Total    | 0.939  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 94              | 51 - 128%   | PASS     |
| 4-Nitrophenol  | Total    | 0.844  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 84              | 10 - 164%   | PASS     |
| 6-tert-butyl-2,4-dimethylphen  | Total    | 0.639  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 64              | 50 - 150%   | PASS     |
| Benzoic Acid   | Total    | 0.499  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 50              | 2 - 145%    | PASS     |
| Benzyl Alcohol   | Total    | 0.889  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 89              | 43 - 148%   | PASS     |
| Pentachlorophenol  | Total    | 0.957  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 96              | 36 - 111%   | PASS     |
| Phenol   | Total    | 0.805  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 81              | 29 - 114%   | PASS     |
| p-tert-Butylphenol   | Total    | 0.996  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 100             | 50 - 150%   | PASS     |

## Acid Extractable Compounds

## QUALITY CONTROL REPORT

| ANALYTE                                    | FRACTION | RESULT | DF | MDL  | RL  | UNITS      | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC  |
|--|----------|--------|----|------|-----|------------|-------------|---------------|------------|-------------|-----------|
| Matrix: BlankMatrix                        |          |        |    |      |     |            |             |               |            |             |           |
| Sample ID: 96418-BS2 QAQC Procedural Blank |          |        |    |      |     |            |             |               |            |             |           |
| Method: EPA 625-1                          |          |        |    |      |     |            |             |               |            |             |           |
| Batch ID: O-35138                          |          |        |    |      |     |            |             |               |            |             |           |
| Prepared: 07-Apr-22                        |          |        |    |      |     |            |             |               |            |             |           |
| Analyzed: 13-May-22                        |          |        |    |      |     |            |             |               |            |             |           |
| (2,4,6-Tribromophenol)                     | Total    | 67     | 1  |      |     | % Recovery | 100         | 0             | 67         | 44 - 159%   | 3 30 PASS |
| (d5-Phenol)                                | Total    | 86     | 1  |      |     | % Recovery | 100         | 0             | 86         | 20 - 121%   | 2 30 PASS |
| 2,4,5-Trichlorophenol                      | Total    | 0.989  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 99         | 57 - 116%   | 2 30 PASS |
| 2,4,6-Trichlorophenol                      | Total    | 0.974  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 97         | 56 - 118%   | 1 30 PASS |
| 2,4-Dichlorophenol                         | Total    | 0.934  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 93         | 51 - 117%   | 1 30 PASS |
| 2,4-Dinitrophenol                          | Total    | 0.676  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 68         | 0 - 152%    | 6 30 PASS |
| 2,6-Dichlorophenol                         | Total    | 0.962  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 96         | 30 - 130%   | 2 30 PASS |
| 2,6-Di-tert-butyl-4-methylphenol           | Total    | 0.711  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 71         | 50 - 150%   | 0 30 PASS |
| 2,6-Di-tert-butylphenol                    | Total    | 0.853  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 85         | 50 - 150%   | 4 30 PASS |
| 2-Chlorophenol                             | Total    | 0.887  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 89         | 41 - 110%   | 1 30 PASS |
| 2-Methyl-4,6-dinitrophenol                 | Total    | 0.734  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 73         | 0 - 141%    | 3 30 PASS |
| 2-Methylphenol                             | Total    | 1.03   | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 103        | 40 - 117%   | 0 30 PASS |
| 2-Nitrophenol                              | Total    | 0.855  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 86         | 40 - 117%   | 0 30 PASS |
| 3+4-Methylphenol                           | Total    | 0.921  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 92         | 0 - 130%    | 3 30 PASS |
| 4-Chloro-3-methylphenol                    | Total    | 0.985  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 99         | 51 - 128%   | 4 30 PASS |
| 4-Nitrophenol                              | Total    | 0.888  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 89         | 10 - 164%   | 6 30 PASS |
| 6-tert-butyl-2,4-dimethylphenol            | Total    | 0.653  | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 65         | 50 - 150%   | 2 30 PASS |
| Benzoic Acid                               | Total    | 0.525  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 52         | 2 - 145%    | 4 30 PASS |
| Benzyl Alcohol                             | Total    | 0.915  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 92         | 43 - 148%   | 3 30 PASS |
| Pentachlorophenol                          | Total    | 1      | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 100        | 36 - 111%   | 4 30 PASS |
| Phenol                                     | Total    | 0.804  | 1  | 0.1  | 0.2 | µg/L       | 1           | 0             | 80         | 29 - 114%   | 0 30 PASS |
| p-tert-Butylphenol                         | Total    | 1.03   | 1  | 0.05 | 0.1 | µg/L       | 1           | 0             | 103        | 50 - 150%   | 3 30 PASS |

## Base/Neutral Extractable Compounds

## QUALITY CONTROL REPORT

| ANALYTE                                   | FRACTION | RESULT | DF | MDL  | RL  | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC |
|---|----------|--------|----|------|-----|-------|-------------|---------------|------------|-------------|----------|
| Sample ID: 96418-B1 QAQC Procedural Blank |          |        |    |      |     |       |             |               |            |             |          |
| Matrix: BlankMatrix                       |          |        |    |      |     |       |             |               |            |             |          |
| Batch ID: O-35138                         |          |        |    |      |     |       |             |               |            |             |          |
| Method: EPA 625.1                         |          |        |    |      |     |       |             |               |            |             |          |
| Prepared: 07-Apr-22                       |          |        |    |      |     |       |             |               |            |             |          |
| Analyzed: 13-May-22                       |          |        |    |      |     |       |             |               |            |             |          |
| Received:                                 |          |        |    |      |     |       |             |               |            |             |          |
| 2-Chloronaphthalene                       | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| 2-Nitroaniline                            | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| 3-Nitroaniline                            | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| 4-Bromophenylphenyl ether                 | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| 4-Chloroaniline                           | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| 4-Chlorophenylphenyl ether                | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| 4-Nitroaniline                            | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Aniline                                   | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Benzidine                                 | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Bis(2-Chloroethoxy) methane               | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Bis(2-Chloroethyl) ether                  | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Bis(2-Chloroisopropyl) ether              | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Dibenzofuran                              | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Disalicylidenepropanediamin               | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Hexachloroethane                          | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| Nitrobenzene                              | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| N-Nitrosodi-n-propylamine                 | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |
| N-Nitrosodiphenylamine                    | Total    | ND     | 1  | 0.05 | 0.1 | µg/L  |             |               |            |             |          |

## Base/Neutral Extractable Compounds QUALITY CONTROL REPORT

| ANALYTE                      | FRACTION | RESULT  | DF | MDL  | RL  | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC |
|------------------------------|----------|---------|----|------|-----|-------|-------------|---------------|------------|-------------|----------|
| Sample ID: 96418-BS1         |          |         |    |      |     |       |             |               |            |             |          |
| Matrix: BlankMatrix          |          |         |    |      |     |       |             |               |            |             |          |
| Method: EPA 625.1            |          |         |    |      |     |       |             |               |            |             |          |
| Batch ID: O-35138            |          |         |    |      |     |       |             |               |            |             |          |
| Prepared: 07-Apr-22          |          |         |    |      |     |       |             |               |            |             |          |
| Analyzed: 13-May-22          |          |         |    |      |     |       |             |               |            |             |          |
| QAQC Procedural Blank        |          |         |    |      |     |       |             |               |            |             |          |
| 2-Chloronaphthalene          | Total    | 0.966   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 97         | 53 - 130%   | PASS     |
| 2-Nitroaniline               | Total    | 0.931   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 93         | 69 - 114%   | PASS     |
| 3-Nitroaniline               | Total    | 0.842   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 84         | 23 - 137%   | PASS     |
| 4-Bromophenylphenyl ether    | Total    | 1.01    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 101        | 61 - 132%   | PASS     |
| 4-Chloroaniline              | Total    | 0.755   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 75         | 50 - 150%   | PASS     |
| 4-Chlorophenylphenyl ether   | Total    | 0.992   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 99         | 63 - 130%   | PASS     |
| 4-Nitroaniline               | Total    | 0.956   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 96         | 10 - 159%   | PASS     |
| Aniline                      | Total    | 0.591   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 59         | 50 - 150%   | PASS     |
| Benzidine                    | Total    | 0.00726 | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 1          | 0 - 125%    | PASS     |
| Bis(2-Chloroethoxy) methane  | Total    | 0.938   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 94         | 66 - 122%   | PASS     |
| Bis(2-Chloroethyl) ether     | Total    | 0.908   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 91         | 43 - 127%   | PASS     |
| Bis(2-Chloroisopropyl) ether | Total    | 1.09    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 109        | 49 - 128%   | PASS     |
| Dibenzofuran                 | Total    | 0.987   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 99         | 50 - 150%   | PASS     |
| Disalicylidenepropanediamin  | Total    | 26.7    | 1  | 0.05 | 0.1 | µg/L  | 50          | 0             | 53         | 50 - 150%   | PASS     |
| Hexachloroethane             | Total    | 0.889   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 89         | 27 - 130%   | PASS     |
| Nitrobenzene                 | Total    | 0.922   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 92         | 54 - 111%   | PASS     |
| N-Nitrosodi-n-propylamine    | Total    | 0.95    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 95         | 61 - 152%   | PASS     |
| N-Nitrosodiphenylamine       | Total    | 0.934   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 93         | 49 - 142%   | PASS     |



## Base/Neutral Extractable Compounds

## QUALITY CONTROL REPORT

| ANALYTE                                    | FRACTION | RESULT  | DF | MDL  | RL  | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC |    |    |      |
|--|----------|---------|----|------|-----|-------|-------------|---------------|------------|-------------|----------|----|----|------|
| Matrix: BlankMatrix                        |          |         |    |      |     |       |             |               |            |             |          |    |    |      |
| Sample ID: 96418-BS2 QAQC Procedural Blank |          |         |    |      |     |       |             |               |            |             |          |    |    |      |
| Batch ID: O-35138                          |          |         |    |      |     |       |             |               |            |             |          |    |    |      |
| Method: EPA 625.1                          |          |         |    |      |     |       |             |               |            |             |          |    |    |      |
| Prepared: 07-Apr-22                        |          |         |    |      |     |       |             |               |            |             |          |    |    |      |
| Analyzed: 13-May-22                        |          |         |    |      |     |       |             |               |            |             |          |    |    |      |
| 2-Chloronaphthalene                        | Total    | 0.975   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 98         | 53 - 130%   | PASS     | 1  | 30 | PASS |
| 2-Nitroaniline                             | Total    | 0.96    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 96         | 69 - 114%   | PASS     | 3  | 30 | PASS |
| 3-Nitroaniline                             | Total    | 0.858   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 86         | 23 - 137%   | PASS     | 2  | 30 | PASS |
| 4-Bromophenylphenyl ether                  | Total    | 1.03    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 103        | 61 - 132%   | PASS     | 2  | 30 | PASS |
| 4-Chloroaniline                            | Total    | 0.732   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 73         | 50 - 150%   | PASS     | 4  | 30 | PASS |
| 4-Chlorophenylphenyl ether                 | Total    | 1.02    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 102        | 63 - 130%   | PASS     | 3  | 30 | PASS |
| 4-Nitroaniline                             | Total    | 1.02    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 102        | 10 - 159%   | PASS     | 6  | 30 | PASS |
| Aniline                                    | Total    | 0.584   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 58         | 50 - 150%   | PASS     | 2  | 30 | PASS |
| Benzidine                                  | Total    | 0.00858 | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 1          | 0 - 125%    | PASS     | 0  | 30 | PASS |
| Bis(2-Chloroethoxy) methane                | Total    | 0.966   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 97         | 66 - 122%   | PASS     | 3  | 30 | PASS |
| Bis(2-Chloroethyl) ether                   | Total    | 0.908   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 91         | 43 - 127%   | PASS     | 0  | 30 | PASS |
| Bis(2-Chloroisopropyl) ether               | Total    | 1.03    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 103        | 49 - 128%   | PASS     | 6  | 30 | PASS |
| Dibenzofuran                               | Total    | 1.01    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 101        | 50 - 150%   | PASS     | 2  | 30 | PASS |
| Disalicylidenepropanediamin                | Total    | 31      | 1  | 0.05 | 0.1 | µg/L  | 50          | 0             | 62         | 50 - 150%   | PASS     | 16 | 30 | PASS |
| Hexachloroethane                           | Total    | 0.892   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 89         | 27 - 130%   | PASS     | 0  | 30 | PASS |
| Nitrobenzene                               | Total    | 0.921   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 92         | 54 - 111%   | PASS     | 0  | 30 | PASS |
| N-Nitrosodi-n-propylamine                  | Total    | 0.96    | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 96         | 61 - 152%   | PASS     | 1  | 30 | PASS |
| N-Nitrosodiphenylamine                     | Total    | 0.944   | 1  | 0.05 | 0.1 | µg/L  | 1           | 0             | 94         | 49 - 142%   | PASS     | 1  | 30 | PASS |

## Polynuclear Aromatic Hydrocarbons

## QUALITY CONTROL REPORT

| ANALYTE                    | FRACTION | RESULT | DF | MDL   | RL | UNITS      | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC |
|----------------------------|----------|--------|----|-------|----|------------|-------------|---------------|------------|-------------|----------|
| Matrix: BlankMatrix        |          |        |    |       |    |            |             |               |            |             |          |
| Sample ID: 96418-B1        |          |        |    |       |    |            |             |               |            |             |          |
| QAQC Procedural Blank      |          |        |    |       |    |            |             |               |            |             |          |
| Method: EPA 625.1          |          |        |    |       |    |            |             |               |            |             |          |
| Batch ID: O-35138          |          |        |    |       |    |            |             |               |            |             |          |
| Prepared: 07-Apr-22        |          |        |    |       |    |            |             |               |            |             |          |
| Analyzed: 13-May-22        |          |        |    |       |    |            |             |               |            |             |          |
| (d10-Acenaphthene)         | Total    | 90     | 1  |       |    | % Recovery | 100         |               | 90         | 65 - 113%   | PASS     |
| (d10-Phenanthrene)         | Total    | 94     | 1  |       |    | % Recovery | 100         |               | 94         | 80 - 111%   | PASS     |
| (d12-Chrysene)             | Total    | 93     | 1  |       |    | % Recovery | 100         |               | 93         | 60 - 139%   | PASS     |
| (d12-Perylene)             | Total    | 87     | 1  |       |    | % Recovery | 100         |               | 87         | 36 - 161%   | PASS     |
| (d8-Naphthalene)           | Total    | 83     | 1  |       |    | % Recovery | 100         |               | 83         | 44 - 119%   | PASS     |
| 1-Methylnaphthalene        | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| 1-Methylphenanthrene       | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| 2,3,5-Trimethylnaphthalene | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| 2,6-Dimethylnaphthalene    | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| 2-Methylnaphthalene        | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Acenaphthene               | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Acenaphthylene             | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Anthracene                 | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Benz[a]anthracene          | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Benzo[a]pyrene             | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Benzo[b]fluoranthene       | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Benzo[e]pyrene             | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Benzo[g,h,i]perylene       | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Benzo[k]fluoranthene       | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Biphenyl                   | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Chrysene                   | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Dibenz[a,h]anthracene      | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |
| Dibenzo[a,i]pyrene         | Total    | ND     | 1  | 0.001 |    | µg/L       |             |               |            |             |          |

## Polynuclear Aromatic Hydrocarbons

## QUALITY CONTROL REPORT

| ANALYTE                | FRACTION | RESULT | DF | MDL   | RL    | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC |
|------------------------|----------|--------|----|-------|-------|-------|-------------|---------------|------------|-------------|----------|
|                        |          |        |    |       |       |       |             |               | LIMITS     | LIMITS      |          |
| Dibenzothiophene       | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |
| Fluoranthene           | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |
| Fluorene               | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |
| Indeno[1,2,3-cd]pyrene | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |
| Naphthalene            | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |
| Perylene               | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |
| Phenanthrene           | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |
| Pyrene                 | Total    | ND     | 1  | 0.001 | 0.005 | µg/L  |             |               |            |             |          |

## Polynuclear Aromatic Hydrocarbons

## QUALITY CONTROL REPORT

| ANALYTE  | FRACTION | RESULT | DF | MDL   | RL    | UNITS      | SPIKE LEVEL | SOURCE RESULT | ACCURACY LIMITS | PRECISION % | QA CODEC |
|--|----------|--------|----|-------|-------|------------|-------------|---------------|-----------------|-------------|----------|
| <b>Sample ID: 96418-BS1</b> <b>QAQC Procedural Blank</b> <b>Matrix: BlankMatrix</b> <b>Sampled:</b> <b>Received:</b> |          |        |    |       |       |            |             |               |                 |             |          |
| Method: EPA 625.1    Batch ID: O-35138    Prepared: 07-Apr-22    Analyzed: 13-May-22                                 |          |        |    |       |       |            |             |               |                 |             |          |
| (d10-Acenaphthene)   | Total    | 93     | 1  |       |       | % Recovery | 100         | 0             | 93              | 65 - 113%   | PASS     |
| (d10-Phenanthrene)   | Total    | 94     | 1  |       |       | % Recovery | 100         | 0             | 94              | 80 - 111%   | PASS     |
| (d12-Chrysene)   | Total    | 93     | 1  |       |       | % Recovery | 100         | 0             | 93              | 60 - 139%   | PASS     |
| (d12-Perylene)   | Total    | 93     | 1  |       |       | % Recovery | 100         | 0             | 93              | 36 - 161%   | PASS     |
| (d8-Naphthalene)   | Total    | 86     | 1  |       |       | % Recovery | 100         | 0             | 86              | 44 - 119%   | PASS     |
| 1-Methylnaphthalene  | Total    | 0.433  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 87              | 49 - 117%   | PASS     |
| 1-Methylphenanthrene   | Total    | 0.452  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 90              | 66 - 127%   | PASS     |
| 2,3,5-Trimethylnaphthalene   | Total    | 0.442  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 88              | 57 - 120%   | PASS     |
| 2,6-Dimethylnaphthalene  | Total    | 0.443  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 89              | 54 - 117%   | PASS     |
| 2-Methylnaphthalene  | Total    | 1.34   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 89              | 47 - 130%   | PASS     |
| Acenaphthene   | Total    | 1.32   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 88              | 53 - 131%   | PASS     |
| Acenaphthylene   | Total    | 1.38   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 92              | 43 - 140%   | PASS     |
| Anthracene   | Total    | 1.36   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 91              | 58 - 135%   | PASS     |
| Benz[a]anthracene  | Total    | 1.36   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 91              | 55 - 145%   | PASS     |
| Benzo[a]pyrene   | Total    | 1.33   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 89              | 51 - 143%   | PASS     |
| Benzo[b]fluoranthene   | Total    | 1.42   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 95              | 46 - 165%   | PASS     |
| Benzo[e]pyrene   | Total    | 0.419  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 84              | 42 - 152%   | PASS     |
| Benzo[g,h,i]perylene   | Total    | 1.45   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 97              | 63 - 133%   | PASS     |
| Benzo[k]fluoranthene   | Total    | 1.36   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 91              | 56 - 145%   | PASS     |
| Biphenyl   | Total    | 0.443  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 89              | 56 - 119%   | PASS     |
| Chrysene   | Total    | 1.29   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 86              | 56 - 141%   | PASS     |
| Dibenz[a,h]anthracene  | Total    | 1.52   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 101             | 55 - 150%   | PASS     |
| Dibenzo[a,i]pyrene   | Total    | 0.397  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 79              | 50 - 150%   | PASS     |



## Polynuclear Aromatic Hydrocarbons

## QUALITY CONTROL REPORT

| ANALYTE                | FRACTION | RESULT | DF | MDL   | RL    | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION % | QA CODEC |
|------------------------|----------|--------|----|-------|-------|-------|-------------|---------------|------------|-------------|----------|
|                        |          |        |    |       |       |       |             | LIMITS        | LIMITS     | LIMITS      |          |
| Dibenzothiophene       | Total    | 0.451  | 1  | 0.001 | 0.005 | µg/L  | 0.5         | 0             | 90         | 75 - 113%   | PASS     |
| Fluoranthene           | Total    | 1.43   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 95         | 60 - 146%   | PASS     |
| Fluorene               | Total    | 1.4    | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 93         | 58 - 131%   | PASS     |
| Indeno[1,2,3-cd]pyrene | Total    | 1.53   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 102        | 50 - 151%   | PASS     |
| Naphthalene            | Total    | 1.25   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 83         | 41 - 126%   | PASS     |
| Perylene               | Total    | 0.42   | 1  | 0.001 | 0.005 | µg/L  | 0.5         | 0             | 84         | 48 - 141%   | PASS     |
| Phenanthrene           | Total    | 1.37   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 91         | 67 - 127%   | PASS     |
| Pyrene                 | Total    | 1.43   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 95         | 54 - 156%   | PASS     |

## Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

| ANALYTE                                    | FRACTION | RESULT | DF | MDL   | RL    | UNITS      | SPIKE LEVEL | SOURCE RESULT | ACCURACY LIMITS | PRECISION % | QA CODEC  |
|--|----------|--------|----|-------|-------|------------|-------------|---------------|-----------------|-------------|-----------|
| Matrix: BlankMatrix                        |          |        |    |       |       |            |             |               |                 |             |           |
| Sample ID: 96418-BS2 QAQC Procedural Blank |          |        |    |       |       |            |             |               |                 |             |           |
| Method: EPA 625.1                          |          |        |    |       |       |            |             |               |                 |             |           |
| Batch ID: O-35138                          |          |        |    |       |       |            |             |               |                 |             |           |
| Prepared: 07-Apr-22                        |          |        |    |       |       |            |             |               |                 |             |           |
| Analyzed: 13-May-22                        |          |        |    |       |       |            |             |               |                 |             |           |
| (d10-Acenaphthene)                         | Total    | 97     | 1  |       |       | % Recovery | 100         | 0             | 65 - 113%       | PASS        | 4 30 PASS |
| (d10-Phenanthrene)                         | Total    | 99     | 1  |       |       | % Recovery | 100         | 0             | 80 - 111%       | PASS        | 5 30 PASS |
| (d12-Chrysene)                             | Total    | 97     | 1  |       |       | % Recovery | 100         | 0             | 60 - 139%       | PASS        | 4 30 PASS |
| (d12-Perylene)                             | Total    | 98     | 1  |       |       | % Recovery | 100         | 0             | 36 - 161%       | PASS        | 5 30 PASS |
| (d8-Naphthalene)                           | Total    | 89     | 1  |       |       | % Recovery | 100         | 0             | 44 - 119%       | PASS        | 3 30 PASS |
| 1-Methylnaphthalene                        | Total    | 0.438  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 49 - 117%       | PASS        | 1 30 PASS |
| 1-Methylphenanthrene                       | Total    | 0.469  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 66 - 127%       | PASS        | 4 30 PASS |
| 2,3,5-Trimethylnaphthalene                 | Total    | 0.456  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 57 - 120%       | PASS        | 3 30 PASS |
| 2,6-Dimethylnaphthalene                    | Total    | 0.448  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 54 - 117%       | PASS        | 1 30 PASS |
| 2-Methylnaphthalene                        | Total    | 1.37   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 47 - 130%       | PASS        | 2 30 PASS |
| Acenaphthene                               | Total    | 1.35   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 53 - 131%       | PASS        | 2 30 PASS |
| Acenaphthylene                             | Total    | 1.42   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 43 - 140%       | PASS        | 3 30 PASS |
| Anthracene                                 | Total    | 1.41   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 58 - 135%       | PASS        | 3 30 PASS |
| Benz[a]anthracene                          | Total    | 1.4    | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 55 - 145%       | PASS        | 2 30 PASS |
| Benzo[a]pyrene                             | Total    | 1.4    | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 51 - 143%       | PASS        | 4 30 PASS |
| Benzo[b]fluoranthene                       | Total    | 1.46   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 46 - 165%       | PASS        | 2 30 PASS |
| Benzo[e]pyrene                             | Total    | 0.426  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 42 - 152%       | PASS        | 1 30 PASS |
| Benzo[g,h,i]perylene                       | Total    | 1.5    | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 63 - 133%       | PASS        | 3 30 PASS |
| Benzo[k]fluoranthene                       | Total    | 1.39   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 56 - 145%       | PASS        | 2 30 PASS |
| Biphenyl                                   | Total    | 0.449  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 56 - 119%       | PASS        | 1 30 PASS |
| Chrysene                                   | Total    | 1.32   | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 56 - 141%       | PASS        | 2 30 PASS |
| Dibenz[a,h]anthracene                      | Total    | 1.6    | 1  | 0.001 | 0.005 | µg/L       | 1.5         | 0             | 55 - 150%       | PASS        | 6 30 PASS |
| Dibenzo[a,i]pyrene                         | Total    | 0.412  | 1  | 0.001 | 0.005 | µg/L       | 0.5         | 0             | 50 - 150%       | PASS        | 4 30 PASS |

## Polynuclear Aromatic Hydrocarbons

## QUALITY CONTROL REPORT

| ANALYTE                | FRACTION | RESULT | DF | MDL   | RL    | UNITS | SPIKE LEVEL | SOURCE RESULT | ACCURACY % | PRECISION %    | QA CODEC  |
|------------------------|----------|--------|----|-------|-------|-------|-------------|---------------|------------|----------------|-----------|
|                        |          |        |    |       |       |       |             | LIMITS        | LIMITS     | LIMITS         |           |
| Dibenzothiophene       | Total    | 0.467  | 1  | 0.001 | 0.005 | µg/L  | 0.5         | 0             | 93         | 75 - 113% PASS | 3 30 PASS |
| Fluoranthene           | Total    | 1.47   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 98         | 60 - 146% PASS | 3 30 PASS |
| Fluorene               | Total    | 1.45   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 97         | 58 - 131% PASS | 4 30 PASS |
| Indeno[1,2,3-cd]pyrene | Total    | 1.6    | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 107        | 50 - 151% PASS | 5 30 PASS |
| Naphthalene            | Total    | 1.27   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 85         | 41 - 126% PASS | 2 30 PASS |
| Perylene               | Total    | 0.424  | 1  | 0.001 | 0.005 | µg/L  | 0.5         | 0             | 85         | 48 - 141% PASS | 1 30 PASS |
| Phenanthrene           | Total    | 1.41   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 94         | 67 - 127% PASS | 3 30 PASS |
| Pyrene                 | Total    | 1.48   | 1  | 0.001 | 0.005 | µg/L  | 1.5         | 0             | 99         | 54 - 156% PASS | 4 30 PASS |

# PREVIOUS TENTATIVELY IDENTIFIED COMPOUNDS

ENVIRONMENTAL LABORATORIES, INC.

*Innovative Solutions for Nature*

Sample ID: 96419

| RT    | Area Pct | Concentration (ng/L) | Library/ID              | Cas Number | Qual |
|-------|----------|----------------------|-------------------------|------------|------|
| 30.68 | 6.0950   | 1111                 | Anthracene-D10-         | 1719-06-8  | 96   |
|       |          |                      | No TICs were identified |            |      |
|       |          |                      |                         |            |      |

Concentration estimated using the response for Anthracene-d10



**Sample ID: Lab Blank Batch O-35138**

| RT    | Area Pct | Concentration (ng/L) | Library/ID   | Cas Number | Qual |
|-------|----------|----------------------|--|------------|------|
| 30.68 | 5.7228   | 1111                 | Anthracene-D10-  | 1719-06-8  | 96   |
| 13.90 | 0.4983   | 97                   | Cyclohexane, 1,2,4,5-tetraethyl-, (1.alpha.,2.alpha.,4.alpha.,5.alpha.)- | 61142-24-3 | 83   |
| 13.90 | 0.4962   | 96                   | 1,7-Dimethyl-4-(1-methylethyl)cyclodecane                                | 645-10-3   | 83   |

Concentration estimated using the response for Anthracene-d10

# PERFORMANCE CHAIN OF CUSTODY

TERRA

AURA

ENVIRONMENTAL LABORATORIES, INC.

*Innovative Solutions for Nature*

**Submittal Form**

**\*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!**  
 Report & Invoice must have the Folder # 998864 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

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

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

**8 containers per sample for MS/MSD batch QC. Only report to RL and place a comment in the report stating RL reporting only**

**eurofins** | Eaton Analytical

**Ship To:**  
 Physis Environmental Laboratories,  
 Inc  
 1904 East Wright Circle  
 Anaheim, CA 92806-6028  
 Phone: 714-602-5320 Fax:

**Folder #: 998864**      **Report Due: 04/18/2022**

|                                  |  |   |                         |                     |
|----------------------------------|--|---|-------------------------|---------------------|
| <b>Sample ID</b><br>202204130686 | <b>Client Sample ID for reference on!</b><br>Halawa Shaft Viewing Pool | <b>Sample Date &amp; Time</b><br>04/11/22 0930 DW | <b>Clip Code</b>        | <b>PWSID</b><br>JLS |
| <b>Sample type:</b>              | <b>Sample Event:</b>   | <b>Facility ID:</b>                               | <b>Sample Point ID:</b> | <b>Static ID:</b>   |

| Method  | Prep Method | Analysis Requested                   |
|---------|-------------|--------------------------------------|
| EPA 625 | EPA 625m    | 625PAH in ug/L                       |
| EPA 625 | EPA 625     | 625 Acid Extractable in ug/L         |
| EPA 625 | EPA 625     | 625 Base Neutral Extractable in ug/L |

Relinquished by: [Signature] Sample Control      Date: 4/14/22 Time: 1256

Received by: [Signature]      Date: 4/14/22 Time: 1256

Relinquished by: \_\_\_\_\_ Sample Control      Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_      Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

Project Iteration ID: 1407003-236  
 Client Name: Eurofins Eaton Analytical  
 Project Name: Folder # 998864 Job # 1000014  
 COC Page Number: 2 of 2  
 Bottle Label Color: NA

## Sample Receipt Summary

### Receiving Info

1. Initials Received By: DA
2. Date Received: 4/14/22
3. Time Received: 1256
4. Client Name: Eurofins
5. Carrier Information: (Please circle)
  - Client
  - UPS
  - Area Fast
  - DRS
  - FedEx
  - GSO/GLS
  - Ontrac
  - PAMS
  - PHYSIS Driver:
    - i. Start Time: \_\_\_\_\_
    - ii. End Time: \_\_\_\_\_
    - iii. Total Mileage: \_\_\_\_\_
    - iv. Number of Pickups: \_\_\_\_\_
6. Container Information: (Please put the # of containers or circle none)
  - 1 Cooler
  - Styrofoam Cooler
  - Boxes
  - None
  - Carboy(s)
  - Carboy Trash Can(s)
  - Carboy Cap(s)
  - Other \_\_\_\_\_
7. What type of ice was used: (Please circle any that apply)
  - Wet Ice
  - Blue Ice
  - Dry Ice
  - Water
  - None
8. Randomly Selected Samples Temperature (°C): 5.1 Used I/R Thermometer # 1-2

### Inspection Info

1. Initials Inspected By: DA

### Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....  Yes /  No
2. All sample containers arrived intact.....  Yes /  No
3. All samples listed on COC(s) are present.....  Yes /  No
4. Information on containers consistent with information on COC(s).....  Yes /  No
5. Correct containers and volume for all analyses indicated.....  Yes /  No
6. All samples received within method holding time.....  Yes /  No
7. Correct preservation used for all analyses indicated.....  Yes /  No
8. Name of sampler included on COC(s)..... Yes /  No

Notes:



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

Date: 04-26-2022  
EMAX Batch No.: 22D144

Attn: Jackie Contreras

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

Subject: Laboratory Report  
Project: 998864

Enclosed is the Laboratory report for samples received on 04/14/22.  
The data reported relate only to samples listed below :

| Sample ID    | Control # | Col Date | Matrix | Analysis     |
|--------------|-----------|----------|--------|--------------|
| 202204130686 | D144-01   | 04/11/22 | WATER  | TPH GASOLINE |
| 202204130687 | D144-02   | 04/11/22 | 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,

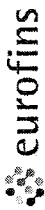
Caspar J. Pang  
Laboratory Director

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 #: 998864 Report Due: 04/18/2022

Date: 4/14/2022

Submittal Form 22D144

\*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers!  
Report & Invoice must have the Folder # 998864 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<br>EMAIL TO: Eaton-MonroviaSubContract@eurofins.com<br>Eurofins Eaton Analytical LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016<br>Phone (626) 386-1165 Fax (626) 386-1122<br>Invoices To: Eurofins Eaton Analytical LLC<br>Accounts Payable 2425 New Holland Pike, Lancaster, PA 17505 | Provide in each Report the<br>Specified State/Certification # and<br>Exp Date for requested tests + matrix<br>Samples from: HAWAII |
|--|--|

4 or 3 containers per sample for MS/MSD batch QC. Low level RL reporting only

|                           |   |   |           |       |     |
|---------------------------|---|---|-----------|-------|-----|
| Sample ID<br>202204130686 | Client Sample ID for reference on!<br>Halawa Shaft Viewing Pool | Sample Date & Time Matrix<br>04/11/22 0930 DW | Clip Code | PWSID | JLS |
|---------------------------|---|---|-----------|-------|-----|

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

| Method   | Prep Method | Analysis Requested            |
|----------|-------------|-------------------------------|
| SW8015C  |             | Ethanol                       |
| 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<br>202204130687 | Client Sample ID for reference on!<br>Travel Blank | Sample Date & Time Matrix<br>04/11/22 0930 DW | Clip Code | PWSID | JLS |
|---------------------------|--|---|-----------|-------|-----|

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

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

Relinquished by: *[Signature]* Date: 4/14/22 Time: 1200

Received by: *[Signature]* Date: 4-14-22 Time: 1200

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Temp. 4.3/3.8 (3)  
3.1/2.6 (4)





|  |                           |  |
|--|---------------------------|--|
| Type of Delivery   | Airbill / Tracking Number | ECN 22D144                             |
| <input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others |                           | Recipient <u>Derek Shell</u>           |
| <input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery                                |                           | Date <u>04/14/22</u> Time <u>12:00</u> |

**COC INSPECTION**

|   |   |  |  |  |  |
|---|---|--|--|--|--|
| <input checked="" type="checkbox"/> Client Name | <input checked="" type="checkbox"/> Client PM/FC      | <input type="checkbox"/> Sampler Name        | <input checked="" type="checkbox"/> Sampling Date/Time | <input checked="" type="checkbox"/> Sample ID  | <input checked="" type="checkbox"/> Matrix |
| <input checked="" type="checkbox"/> Address     | <input checked="" type="checkbox"/> Tel # / Fax #     | <input type="checkbox"/> Courier Signature   | <input checked="" type="checkbox"/> Analysis Required  | <input type="checkbox"/> Preservative (if any) | <input 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 <u>*correction</u>      | <input type="checkbox"/> Custody Seal           | <input type="checkbox"/> Intact             | <input type="checkbox"/> Damaged                             |
| Packaging <u>Factor:</u>          | <input checked="" type="checkbox"/> Bubble Pack | <input type="checkbox"/> Styrofoam          | <input type="checkbox"/> Popcorn                             |
| Temperatures <u>-0.5</u>          | <input type="checkbox"/> Cooler 1 _____ °C      | <input type="checkbox"/> Cooler 2 _____ °C  | <input checked="" type="checkbox"/> Cooler 3 <u>43/3.8°C</u> |
| (Cool, ≤6 °C but not frozen)      | <input type="checkbox"/> Cooler 6 _____ °C      | <input type="checkbox"/> Cooler 7 _____ °C  | <input checked="" type="checkbox"/> Cooler 4 <u>3.1/26°C</u> |
| Thermometer: <u>A - S/N _____</u> | <input type="checkbox"/> Cooler 8 _____ °C      | <input type="checkbox"/> Cooler 9 _____ °C  | <input type="checkbox"/> Cooler 5 _____ °C                   |
|                                   | <input type="checkbox"/> Cooler 9 _____ °C      | <input type="checkbox"/> Cooler 10 _____ °C | <input type="checkbox"/> Cooler 6 _____ °C                   |
|                                   | <input type="checkbox"/> Cooler 10 _____ °C     | <input type="checkbox"/> Cooler 11 _____ °C | <input type="checkbox"/> Cooler 7 _____ °C                   |

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

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

**DISCREPANCIES**

| LabSampleID        | LabSampleContainerID | Code | ClientSample Label ID / Information                       | Corrective Action |
|--------------------|----------------------|------|---|-------------------|
| 1                  |                      | D8   | Emmal requested on coc, did not receive unpreserved vials | R8                |
| 1, 2               | 1-11                 | D10  |   | R8                |
| 1                  | 5, 6, 8, 9           | D22  |   | R8, R9            |
| 1                  | 4, 7                 | D24  |   |                   |
| 1                  | 1-3                  | D9   | gas   |                   |
| _____<br>aull/4/22 |                      |      |   |                   |
| AB 4/17/22         |                      |      |   |                   |

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

**NOTES/OBSERVATIONS:**

SAMPLE MATRIX IS DRINKING WATER?  YES  NO

- LEGEND:**
- |   |   |  |
|---|---|--|
| Code Description-Sample Management              | Code Description-Sample Management              | <input type="checkbox"/> Continue to next page.  |
| D1 Analysis is not indicated in _____           | D13 Out of Holding Time                         | Code Description-Sample Management   |
| D2 Analysis mismatch COC vs label               | D14 Bubble is >6mm                              | R1 Proceed as indicated in <input type="checkbox"/> COC <input type="checkbox"/> Label |
| D3 Sample ID mismatch COC vs label              | D15 No trip blank in cooler                     | R2 Refer to attached instruction   |
| D4 Sample ID is not indicated in _____          | D16 Preservation not indicated in _____         | R3 Cancel the analysis   |
| D5 Container -[improper] [leaking] [broken]     | D17 Preservation mismatch COC vs label          | R4 Use vial with smallest bubble first   |
| D6 Date/Time is not indicated in _____          | D18 Insufficient chemical preservative          | R5 Log-in with latest sampling date and time+1 min                                     |
| D7 Date/Time mismatch COC vs label              | D19 Insufficient Sample                         | R6 Adjust pH as necessary  |
| D8 Sample listed in COC is not received         | D20 No filtration info for dissolved analysis   | R7 Filter and preserved as necessary   |
| D9 Sample received is not listed in COC         | D21 No sample for moisture determination        | R8 <u>Informed client</u>  |
| D10 No initial/date on corrections in COC/label | D22 <u>Jet fuel 8 Analysis not indicated</u>    | R9 <u>Etanol not needed</u>  |
| D11 Container count mismatch COC vs received    | D23 _____ (on label)                            | R10 _____  |
| D12 Container size mismatch COC vs received     | D24 <u>Jet fuel 5, 8 Analysis not indicated</u> | R11 _____  |

**REVIEWS:**

Sample Labeling Maria Rivera SRF Allyssa PM AB

Date 04/14/22 / 4/17/22 Date 4/14/22 Date 4/17/22

## REPORTING CONVENTIONS

### DATA QUALIFIERS:

| Lab Qualifier | AFCEE Qualifier | Description  |
|---------------|-----------------|--|
| <b>J</b>      | <b>F</b>        | Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.       |
| <b>N</b>      |                 | Indicates presumptive evidence of a compound.  |
| <b>B</b>      | <b>B</b>        | Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level. |
| <b>E</b>      | <b>J</b>        | 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:

|             |                                   |
|-------------|-----------------------------------|
| <b>CRDL</b> | Contract Required Detection Limit |
| <b>RL</b>   | Reporting Limit                   |
| <b>MRL</b>  | Method Reporting Limit            |
| <b>PQL</b>  | Practical Quantitation Limit      |
| <b>MDL</b>  | Method Detection Limit            |
| <b>DO</b>   | 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

998864

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

SDG#: 22D144

## CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 998864

SDG : 22D144

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

A total of two(2) water samples were received on 04/14/22 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. VG39D04B - 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. VG39D04L/VG39D04C 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 D140-01M/D140-01S. 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

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project     : 998864
=====
SDG NO.    : 22D144
Instrument ID : GCT039
=====

```

| 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       |                      |                |                     |             |                          |
| MBLK1W           | VG39D04B             | 1               | NA      | 04/14/2212:30      | 04/14/2212:30 | ED14004A             | ED14003A       | ED14003A            | 22VG39D04   | Method Blank             |
| LCS1W            | VG39D04L             | 1               | NA      | 04/14/2213:07      | 04/14/2213:07 | ED14005A             | ED14003A       | ED14003A            | 22VG39D04   | Lab Control Sample (LCS) |
| LCD1W            | VG39D04C             | 1               | NA      | 04/14/2213:44      | 04/14/2213:44 | ED14006A             | ED14003A       | ED14003A            | 22VG39D04   | LCS Duplicate            |
| 202204130686     | D144-01              | 1               | NA      | 04/14/2223:31      | 04/14/2223:31 | ED14022A             | ED14012A       | ED14012A            | 22VG39D04   | Field Sample             |
| 202204130687     | D144-02              | 1               | NA      | 04/15/2200:44      | 04/15/2200:44 | ED14024A             | ED14023A       | ED14023A            | 22VG39D04   | 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: 04/11/22 09:30
Project     : 998864                     Date Received: 04/14/22
Batch No.   : 22D144                     Date Extracted: 04/15/22 00:44
Sample ID   : 202204130687              Date Analyzed: 04/15/22 00:44
Lab Samp ID: D144-02                     Dilution Factor: 1
Lab File ID: ED14024A                   Matrix: WATER
Ext Btch ID: 22VG39D04                  % Moisture: NA
Calib. Ref.: ED14023A                   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   | 0.0348            | 0.0400       | 87            | 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: 04/14/22 12:30
Project     : 998864                     Date Received: 04/14/22
Batch No.   : 22D144                     Date Extracted: 04/14/22 12:30
Sample ID   : MBLK1W                     Date Analyzed: 04/14/22 12:30
Lab Samp ID: VG39D04B                   Dilution Factor: 1
Lab File ID: ED14004A                   Matrix: WATER
Ext Btch ID: 22VG39D04                 % Moisture: NA
Calib. Ref.: ED14003A                   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   | 0.0363            | 0.0400       | 91            | 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 : 998864  
BATCH NO. : 22D144  
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : MBLK1W                             LCS1W         LCD1W
LAB SAMPLE ID : VG39D04B                         VG39D04L     VG39D04C
LAB FILE ID  : ED14004A                         ED14005A     ED14006A
DATE PREPARED : 04/14/22 12:30                 04/14/22 13:07 04/14/22 13:44
DATE ANALYZED : 04/14/22 12:30                 04/14/22 13:07 04/14/22 13:44
PREP BATCH   : 22VG39D04                       22VG39D04    22VG39D04
CALIBRATION REF: ED14003A                       ED14003A     ED14003A
  
```

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              | 0.491               | 98            | 0.500              | 0.484               | 97            | 1          | 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             | 0.0462              | 116           | 0.0400             | 0.0463              | 116           | 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 : 998896  
BATCH NO. : 22D140  
METHOD : 5030B/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202204130762                       202204130762MS 202204130762MSD
LAB SAMPLE ID : D140-01                           D140-01M      D140-01S
LAB FILE ID  : ED14013A                           ED14014A      ED14015A
DATE PREPARED : 04/14/22 18:01                     04/14/22 18:38 04/14/22 19:15
DATE ANALYZED : 04/14/22 18:01                     04/14/22 18:38 04/14/22 19:15
PREP BATCH   : 22VG39D04                           22VG39D04     22VG39D04
CALIBRATION REF: ED14012A                           ED14012A      ED14012A
  
```

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              | 0.445              | 89           | 0.500              | 0.473               | 95            | 6          | 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             | 0.0441             | 110          | 0.0400             | 0.0453              | 113           | 60-140         |

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



LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

998864

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 22D144

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 998864

SDG : 22D144

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 04/14/22 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. DSD017WB - 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 DSD017WL. 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 22D122-01M/22D122-01S. 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: 998864

SDG : 22D144

METHOD 3520C/8015B  
PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 04/14/22 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. DSD017WB - 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 J5D017WL. 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 22D123-01M/22D123-01S. 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: 998864

SDG : 22D144

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

One(1) water sample was received on 04/14/22 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. DSD017WB - 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 J8D017WL. 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 22D140-01M/22D140-01S. 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     : 998864
SDG NO.    : 22D144
Instrument ID : D5
=====
  
```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | Analysis Date/Time | WATER                |                |                           | Notes                    |
|------------------|----------------------|-----------------|---------|--------------------|----------------------|----------------|---------------------------|--------------------------|
|                  |                      |                 |         |                    | Extraction Date/Time | Sample Data FN | Calibration Prep. Data FN |                          |
| MBLK1W           | DSD017WB             | 1               | NA      | 04/19/2217:01      | 04/18/2210:45        | LD19010A       | 22DSD017W                 | Method Blank             |
| LCS1W            | DSD017WL             | 1               | NA      | 04/19/2217:20      | 04/18/2210:45        | LD19011A       | 22DSD017W                 | Lab Control Sample (LCS) |
| 202204130686     | D144-01              | 1               | NA      | 04/20/2200:07      | 04/18/2210:45        | LD19033A       | 22DSD017W                 | Field Sample             |

```

FN      - Filename
% Moist - Percent Moisture
  
```

LAB CHRONICLE  
PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL
Project     : 998864
=====
SDG NO.    : 22D144
Instrument ID : D5
=====

```

| Client Sample ID | Laboratory Sample ID | Dilution Factor | % Moist | WATER              |                      |                | Extraction Date/Time | Sample Data FN | Calibration Prep. Data FN | Batch | Notes |
|------------------|----------------------|-----------------|---------|--------------------|----------------------|----------------|----------------------|----------------|---------------------------|-------|-------|
|                  |                      |                 |         | Analysis Date/Time | Extraction Date/Time | Sample Data FN |                      |                |                           |       |       |
| MBLK1W           | DSD017MB             | 1               | NA      | 04/19/2217:01      | 04/18/2210:45        | LD19010A       | LD19005A             | 22DSD017W      | Method Blank              |       |       |
| LCS1W            | J5D017WL             | 1               | NA      | 04/19/2217:38      | 04/18/2210:45        | LD19012A       | LD19005A             | 22DSD017W      | Lab Control Sample (LCS)  |       |       |
| 202204130686     | D144-01              | 1               | NA      | 04/20/2200:07      | 04/18/2210:45        | LD19033A       | LD19023A             | 22DSD017W      | Field Sample              |       |       |

FN - Filename  
% Moist - Percent Moisture





# **SAMPLE RESULTS**

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 04/11/22 09:30
Project     : 998864                      Date Received: 04/14/22
Batch No.   : 22D144                      Date Extracted: 04/18/22 10:45
Sample ID   : 202204130686               Date Analyzed: 04/20/22 00:07
Lab Samp ID: 22D144-01                   Dilution Factor: 1
Lab File ID: LD19033A                    Matrix: WATER
Ext Btch ID: 22DSD017W                    % Moisture: NA
Calib. Ref.: LD19022A                    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         | 0.527             | 0.515        | 102           | 60-130   |  |
| Hexacosane           | 0.105             | 0.129        | 81            | 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 : 970ml                      Final Volume : 5ml  
Prepared by : P0reto                        Analyzed by : SDeeso

METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

|              |                             |                  |                |
|--------------|-----------------------------|------------------|----------------|
| Client       | : EUROFINS EATON ANALYTICAL | Date Collected:  | 04/11/22 09:30 |
| Project      | : 998864                    | Date Received:   | 04/14/22       |
| Batch No.    | : 22D144                    | Date Extracted:  | 04/18/22 10:45 |
| Sample ID    | : 202204130686              | Date Analyzed:   | 04/20/22 00:07 |
| Lab Samp ID: | 22D144-01                   | Dilution Factor: | 1              |
| Lab File ID: | LD19033A                    | Matrix:          | WATER          |
| Ext Btch ID: | 22DSD017W                   | % Moisture:      | NA             |
| Calib. Ref.: | LD19023A                    | 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         | 0.527  | 0.515   | 102       | 60-130   |
| Hexacosane           | 0.105  | 0.129   | 81        | 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 : 970ml Final Volume : 5ml  
 Prepared by : P0reto Analyzed by : SDeeso

METHOD 3520C/8015B  
 PETROLEUM HYDROCARBONS BY EXTRACTION

|              |                             |                  |                |
|--------------|-----------------------------|------------------|----------------|
| Client       | : EUROFINS EATON ANALYTICAL | Date Collected:  | 04/11/22 09:30 |
| Project      | : 998864                    | Date Received:   | 04/14/22       |
| Batch No.    | : 22D144                    | Date Extracted:  | 04/18/22 10:45 |
| Sample ID    | : 202204130686              | Date Analyzed:   | 04/20/22 00:07 |
| Lab Samp ID: | 22D144-01                   | Dilution Factor: | 1              |
| Lab File ID: | LD19033A                    | Matrix:          | WATER          |
| Ext Btch ID: | 22DSD017W                   | % Moisture:      | NA             |
| Calib. Ref.: | LD19023A                    | 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         | 0.527  | 0.515   | 102       | 60-130   |
| Hexacosane           | 0.105  | 0.129   | 81        | 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 : 970ml Final Volume : 5ml  
 Prepared by : P0reto Analyzed by : SDeeso

# QC SUMMARIES

METHOD 3520C/8015B  
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : EUROFINS EATON ANALYTICAL   Date Collected: 04/18/22 10:45
Project     : 998864                     Date Received: 04/18/22
Batch No.   : 22D144                     Date Extracted: 04/18/22 10:45
Sample ID   : MBLK1W                     Date Analyzed: 04/19/22 17:01
Lab Samp ID: DSD017WB                    Dilution Factor: 1
Lab File ID: LD19010A                    Matrix: WATER
Ext Btch ID: 22DSD017W                   % Moisture: NA
Calib. Ref.: LD19004A                    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         | 0.466             | 0.500        | 93            | 60-130   |
| Hexacosane           | 0.119             | 0.125        | 95            | 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 : POrreto Analyzed by : SDeeso



EMAX QUALITY CONTROL DATA  
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 998864  
BATCH NO. : 22D144  
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA  
DILUTION FACTOR: 1 1  
SAMPLE ID : MBLK1W LCS1W  
LAB SAMPLE ID : DSD017WB DSD017WL  
LAB FILE ID : LD19010A LD19011A  
DATE PREPARED : 04/18/22 10:45 04/18/22 10:45  
DATE ANALYZED : 04/19/22 17:01 04/19/22 17:20  
PREP BATCH : 22DSD017W 22DSD017W  
CALIBRATION REF: LD19004A LD19004A

ACCESSION:

| PARAMETERS | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|------------|--------------------|--------------------|---------------------|---------------|----------------|
| Diesel     | ND                 | 2.50               | 2.63                | 105           | 50-130         |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.500              | 0.384               | 77            | 60-130         |
| Hexacosane           | 0.125              | 0.118               | 94            | 60-130         |

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 998532  
BATCH NO. : 22D122  
METHOD : 3520C/8015B

```

=====
MATRIX : WATER % MOISTURE:NA
DILUTION FACTOR: 1 1 1
SAMPLE ID : 202204120564 202204120564MSD 202204120564MSD
LAB SAMPLE ID : 22D122-01 22D122-01M 22D122-01S
LAB FILE ID : LD19016A LD19017A LD19018A
DATE PREPARED : 04/18/22 10:45 04/18/22 10:45 04/18/22 10:45
DATE ANALYZED : 04/19/22 18:53 04/19/22 19:11 04/19/22 19:30
PREP BATCH : 22DSD017W 22DSD017W 22DSD017W
CALIBRATION REF: LD19004A LD19004A LD19004A
=====
  
```

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                 | 2.62               | 3.34               | 127          | 2.62               | 2.94                | 112           | 13         | 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         | 0.525              | 0.522              | 99           | 0.525              | 0.440               | 84            | 60-130         |
| Hexacosane           | 0.131              | 0.136              | 104          | 0.131              | 0.132               | 101           | 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: 04/18/22 10:45
Project     : 998864                     Date Received: 04/18/22
Batch No.   : 22D144                     Date Extracted: 04/18/22 10:45
Sample ID   : MBLK1W                     Date Analyzed: 04/19/22 17:01
Lab Samp ID: DSD017WB                   Dilution Factor: 1
Lab File ID: LD19010A                   Matrix: WATER
Ext Btch ID: 22DSD017W                  % Moisture: NA
Calib. Ref.: LD19005A                   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         | 0.466             | 0.500        | 93            | 60-130   |
| Hexacosane           | 0.119             | 0.125        | 95            | 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 : POrto Analyzed by : SDeeso

EMAX QUALITY CONTROL DATA  
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 998864  
BATCH NO. : 22D144  
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA  
DILUTION FACTOR: 1 1  
SAMPLE ID : MBLK1W LCS1W  
LAB SAMPLE ID : DSD017WB J5D017WL  
LAB FILE ID : LD19010A LD19012A  
DATE PREPARED : 04/18/22 10:45 04/18/22 10:45  
DATE ANALYZED : 04/19/22 17:01 04/19/22 17:38  
PREP BATCH : 22DSD017W 22DSD017W  
CALIBRATION REF: LD19005A LD19005A

ACCESSION:

| PARAMETERS | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|------------|--------------------|--------------------|---------------------|---------------|----------------|
| JP5        | ND                 | 2.50               | 2.49                | 100           | 30-160         |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.500              | 0.501               | 100           | 60-130         |
| Hexacosane           | 0.125              | 0.118               | 94            | 60-130         |

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 998548  
BATCH NO. : 22D123  
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                               % MOISTURE:NA
DILUTION FACTOR: 1                               1
SAMPLE ID   : 202204120630                       202204120630MSD
LAB SAMPLE ID : 22D123-01                         22D123-01S
LAB FILE ID  : LD19019A                          LD19021A
DATE PREPARED : 04/18/22 10:45                   04/18/22 10:45
DATE ANALYZED : 04/19/22 19:48                   04/19/22 20:25
PREP BATCH   : 22DSD017W                         22DSD017W
CALIBRATION REF: LD19005A                        LD19005A
  
```

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                 | 2.47               | 2.59               | 105          | 2.45               | 2.65                | 108           | 2          | 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         | 0.495              | 0.501              | 101          | 0.490              | 0.528               | 108           | 60-130         |
| Hexacosane           | 0.124              | 0.116              | 94           | 0.123              | 0.127               | 104           | 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: 04/18/22 10:45
Project     : 998864                      Date Received: 04/18/22
Batch No.   : 22D144                      Date Extracted: 04/18/22 10:45
Sample ID   : MBLK1W                      Date Analyzed: 04/19/22 17:01
Lab Samp ID: DSD017WB                    Dilution Factor: 1
Lab File ID: LD19010A                    Matrix: WATER
Ext Btch ID: 22DSD017W                  % Moisture: NA
Calib. Ref.: LD19006A                   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         | 0.466             | 0.500        | 93            | 60-130   |
| Hexacosane           | 0.119             | 0.125        | 95            | 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 : 998864  
BATCH NO. : 22D144  
METHOD : 3520C/8015B

MATRIX : WATER % MOISTURE:NA  
DILUTION FACTOR: 1 1  
SAMPLE ID : MBLK1W LCS1W  
LAB SAMPLE ID : DSD017WB J8D017WL  
LAB FILE ID : LD19010A LD19013A  
DATE PREPARED : 04/18/22 10:45 04/18/22 10:45  
DATE ANALYZED : 04/19/22 17:01 04/19/22 17:57  
PREP BATCH : 22DSD017W 22DSD017W  
CALIBRATION REF: LD19006A LD19006A

ACCESSION:

| PARAMETERS | MBResult<br>(mg/L) | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|------------|--------------------|--------------------|---------------------|---------------|----------------|
| JP8        | ND                 | 2.50               | 2.20                | 88            | 30-160         |

| SURROGATE PARAMETERS | SpikeAmt<br>(mg/L) | LCSResult<br>(mg/L) | LCSRec<br>(%) | QCLimit<br>(%) |
|----------------------|--------------------|---------------------|---------------|----------------|
| Bromobenzene         | 0.500              | 0.526               | 105           | 60-130         |
| Hexacosane           | 0.125              | 0.118               | 94            | 60-130         |

MB: Method Blank sample LCS: Lab Control Sample



EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL  
PROJECT : 998896  
BATCH NO. : 22D140  
METHOD : 3520C/8015B

```

=====
MATRIX      : WATER                                % MOISTURE:NA
DILUTION FACTOR: 1                                1
SAMPLE ID   : 202204130762                        202204130762MSD
LAB SAMPLE ID : 22D140-01                          22D140-01S
LAB FILE ID  : LD19026A                            LD19027A
DATE PREPARED : 04/18/22 10:45                    04/18/22 10:45
DATE ANALYZED : 04/19/22 21:58                    04/19/22 22:35
PREP BATCH   : 22DSD017W                          22DSD017W
CALIBRATION REF: LD19023A                          LD19023A
=====
  
```

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                 | 2.70               | 2.39               | 89           | 2.65               | 2.26                | 85            | 6          | 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         | 0.540              | 0.561              | 104          | 0.530              | 0.547               | 103           | 60-130         |
| Hexacosane           | 0.135              | 0.133              | 99           | 0.132              | 0.129               | 97            | 60-130         |

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