

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

Laboratory Report

for

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

Date of Issue
04/18/2022

Rinda Seddas
EUROFINS EATON
ANALYTICAL, LLC



Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 998402
Project: SPECIAL
Group: RESIDENTIAL TPH TESTING - ASSET

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

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

(+) In-House Method

Acknowledgement of Samples Received

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

Attn: Erwin Kawata
 Phone: 808-748-5091

Client ID: HONOLULU

Folder #: 998402

Project: SPECIAL

Sample Group: RESIDENTIAL TPH TESTING - ASSET

Project Manager: Debbie L Frank

Phone: (626) 386-1149

PO #: C20525101 exp 05312023

The following samples were received from you on **April 12, 2022 at 0934**. 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
202204120173	██████ Ft. Weaver Rd Variable ID: N050259-01 Static ID: ██████ (SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil	04/08/2022 1300
202204120176	Trip Blank (SUB)Gas Fraction Hydrocarbons	04/08/2022 1300

Test Description



Eaton Analytical

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

CHAIN OF CUSTODY RECORD

998402

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

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

SAMPLE TEMP RECEIVED AT: ASSET Labs

Colton / No. California / Arizona 2.8 °C (Compliance: 4 ± 2 °C)

Monrovia 5/4/3 °C (Compliance: 4 ± 2 °C)

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

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

Wet Ice _____

Federal # : 0040

TO BE COMPLETED BY SAMPLER: _____ (check for yes)

COMPANY/AGENCY NAME: **BWS HONOLULU**

PROJECT CODE: **Special**

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES x

REGULATION INVOLVED: _____ (eg. SDWA, Phase V, NPDES, FDA...)

EEA CLIENT CODE: _____ COC ID: _____

SAMPLE GROUP: **RESIDENTIAL TPH TESTING**

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION

SEE ATTACHED BOTTLE ORDER FOR ANALYSES

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	ASSET Labs	TPH 8015	Diesel and Motor Oil C	8015 Gas C	8015 Gas C 12	EEA-Monrovia	VOASDWA C	VOASDWA TR	EFGS	8270ESim E	WAC	8270E EMA	C (BN)	BCE(+)	SAMPLER COMMENTS
04/08/22	1300		N050259-01	CFW			ASSET Labs	3	4	2											residential hosebib

TAT requested: rush by adv notice only STD ___ 1 wk ___ 5 day ___ X ___ 2 day ___ 1 day ___

8016 Direct Shipped for 3rd TAT to
ASSET Laboratories
3151 W. Post Road
Las Vegas, NV 89118
Attn: Sample Control / Markon Certin
702 307 2699

8270 Direct Shipped for 3rd TAT to
Eurofins Frontier Global Sciences, LLC
5765 8th St E
Tacoma WA, 98424
Attn: Sample Receiving / Elaine Walker
+1 253-248-4672

Bill and Report to EEA-Monrovia
Eaton - Monrovia Sub Contract <Eaton-MonroviaSubContract@eurofinsnet.com>

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

O = Other - Please Identify

SAMPLED BY: _____ SIGNATURE _____ PRINT NAME: **Lesli Laanui**

RELINQUISHED BY: _____ SIGNATURE _____ PRINT NAME: _____

RECEIVED BY: Yoon Kwon Rodriguez SIGNATURE _____ PRINT NAME: _____

DATE: 4/8/2022

TIME: 1126

DATE: 4/12/22

TIME: 0934

COMPANY/TITLE: Honolululu Board of Water Supply

DATE: 4/12/22

TIME: 0934

COMPANY/TITLE: Honolululu Board of Water Supply

DATE: 4/12/22

TIME: 0934

COMPANY/TITLE: ASSET

DATE: 4/12/22

TIME: 0934

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

SHIP DATE: 11APR22
ACTWGT: 25.00 LB
CAD: 100205419/NET4460

BILL RECIPIENT

TO **SAMPLE CONTROL MARLON CARTIN**
ASSET LABORATORIES
3151 WEST POST ROAD

LAS VEGAS NV 89118

(702) 307-2859

REF:

INV:

DEPT

550J262F3FEN4



TUE - 12 APR 10:30A
PRIORITY OVERNIGHT

TRK# 7765 5161 0040
0201

WR LASA

89118
NV-US LAS



2. B^c JH 3

After printing this label:

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

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

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

Laboratory Comments

Report: 998402
Project: SPECIAL
Group: RESIDENTIAL TPH TESTING -
ASSET

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

Folder Comments

Results for TPH Carbon Chain are submitted by Asset Laboratories



Eaton Analytical

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

Laboratory Hits

Report: 998402
Project: SPECIAL
Group: RESIDENTIAL TPH TESTING -
ASSET

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

Samples Received on:
04/12/2022 0934

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

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

Laboratory Data

Report: 998402
Project: SPECIAL
Group: RESIDENTIAL TPH TESTING - ASSET

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

Samples Received on:
 04/12/2022 0934

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<u>Ft. Weaver Rd (202204120173)</u>						Sampled on 04/08/2022 1300			
Variable ID: N050259-01									
Static ID: KeAina									
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/13/22	04/13/22 02:29			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
04/13/22	04/13/22 06:07			(SW 8015B)	TPH Diesel	ND	ug/L	50	1
04/13/22	04/13/22 06:07			(SW 8015B)	TPH Motor Oil	ND	ug/L	50	1
<u>Trip Blank (202204120176)</u>						Sampled on 04/08/2022 1300			
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/13/22	04/13/22 13:28			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	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.

April 14, 2022

Debbie Frank
Eurofins
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016-3629
TEL: (626) 386-1158
FAX:

Workorder No.: N050259

RE: BWS HONOLULU

Attention: Debbie Frank

Enclosed are the results for sample(s) received on April 12, 2022 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
ELAP Cert 2921
EPA ID CA01638

NEVADA | P: 702.307.2659 F: 702.307.2691
3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2676 | NV Cert NV00922
ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

CLIENT: Eurofins
Project: BWS HONOLULU
Lab Order: N050259

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.



CLIENT: Eurofins
Project: BWS HONOLULU
Lab Order: N050259
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N050259-001A	998402_202204120173_█ █ Ft. Weaver Rd	Chlor(am)inated Fi	4/8/2022 1:00:00 PM	4/12/2022	4/14/2022
N050259-001B	998402_202204120173_█ █ Ft. Weaver Rd	Chlor(am)inated Fi	4/8/2022 1:00:00 PM	4/12/2022	4/14/2022
N050259-002A	998402_202204120176_Trip Blank	Chlor(am)inated Fi	4/8/2022 1:00:00 PM	4/12/2022	4/14/2022



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 14-Apr-22

CLIENT: Eurofins
Lab Order: N050259
Project: BWS HONOLULU
Lab ID: N050259-001

Client Sample ID: 998402_202204120173_█ Ft.
Collection Date: 4/8/2022 1:00:00 PM
Matrix: CHLOR(AM)INATED FINISHED W

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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TPH CARBON CHAIN EPA 8015

EPA 3510C

EPA 8015B(M)

RunID: NV00922-GC1_220413A	QC Batch: 92395				PrepDate: 4/13/2022	Analyst: MCC
Diesel Range Organics (C10-C28)	ND	50		ug/L	1	4/13/2022 06:07 PM
Oil Range Organics (C28-C40)	ND	50		ug/L	1	4/13/2022 06:07 PM
Surr: p-Terphenyl	87.9	33-138		%REC	1	4/13/2022 06:07 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_220413A	QC Batch: E22VW039				PrepDate:	Analyst: CA
GRO	ND	0.050		mg/L	1	4/13/2022 02:29 PM
Surr: Chlorobenzene - d5	86.6	69-130		%REC	1	4/13/2022 02:29 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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 ORELAP/NELAP Cert 4046

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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 14-Apr-22

CLIENT: Eurofins	Client Sample ID: 998402_202204120176_Trip Blank
Lab Order: N050259	Collection Date: 4/8/2022 1:00:00 PM
Project: BWS HONOLULU	Matrix: CHLOR(AM)INATED FINISHED W
Lab ID: N050259-002	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_220413A	QC Batch: E22VW039	PrepDate:	Analyst: CA		
GRO	ND	0.050	mg/L	1	4/13/2022 01:28 PM
Surr: Chlorobenzene - d5	86.0	69-130	%REC	1	4/13/2022 01:28 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ASSET Laboratories

Date: 14-Apr-22

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N050259
Project: BWS HONOLULU

TestCode: 8015DM_W_CC

Sample ID: MB-92395	SampType: MBLK	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/13/2022	RunNo: 161583						
Client ID: PBW	Batch ID: 92395	TestNo: EPA 8015B(M) EPA 3510C		Analysis Date: 4/13/2022	SeqNo: 4599212						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	ND	50									
Oil Range Organics (C28-C40)	ND	50									
Surr: p-Terphenyl	71.638		80.00		89.5	33	138				

Sample ID: LCS-92395	SampType: LCS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/13/2022	RunNo: 161583						
Client ID: LCSW	Batch ID: 92395	TestNo: EPA 8015B(M) EPA 3510C		Analysis Date: 4/13/2022	SeqNo: 4599213						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	710.943	50	1000	0	71.1	48	120				
Surr: p-Terphenyl	64.978		80.00		81.2	33	138				

Sample ID: N050284-001A-MS	SampType: MS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/13/2022	RunNo: 161583						
Client ID: ZZZZZZ	Batch ID: 92395	TestNo: EPA 8015B(M) EPA 3510C		Analysis Date: 4/13/2022	SeqNo: 4599216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	571.982	50	1000	0	57.2	48	120				
Surr: p-Terphenyl	61.563		80.00		77.0	33	138				

Sample ID: N050284-001A-MSD	SampType: MSD	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/13/2022	RunNo: 161583						
Client ID: ZZZZZZ	Batch ID: 92395	TestNo: EPA 8015B(M) EPA 3510C		Analysis Date: 4/13/2022	SeqNo: 4599217						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	624.913	50	1000	0	62.5	48	120	572.0	8.84	20	
Surr: p-Terphenyl	69.983		80.00		87.5	33	138		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
DO	Surrogate Diluted Out	Calculations are based on raw values	

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference



CALIFORNIA P:562.219.7435 F:562.219.7436 NEVADA P:702.307.2659 F:702.307.2691
11110 Artesia Blvd, Ste B, Cerritos, CA 90703 3151 W. Post Rd., Las Vegas, NV 89118
ELAP Cert 2921 ELAP Cert 2676 | NV Cert NV00922
EPA ID:CA01638 ORELAP/NELAP Cert 4046

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N050259
Project: BWS HONOLULU

TestCode: 8015GAS_WU

Sample ID: E220413LCS		SampType: LCS		TestCode: 8015GAS_WU		Units: mg/L		Prep Date:		RunNo: 161575	
Client ID: LCSW		Batch ID: E22VW039		TestNo: EPA 8015B				Analysis Date: 4/13/2022		SeqNo: 4598803	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.977	0.050	1.000	0	97.7	69	143				
Surr: Chlorobenzene - d5	50.177		50.00		100	69	130				


Sample ID: E220413MB2		SampType: MBLK		TestCode: 8015GAS_WU		Units: mg/L		Prep Date:		RunNo: 161575	
Client ID: PBW		Batch ID: E22VW039		TestNo: EPA 8015B				Analysis Date: 4/13/2022		SeqNo: 4598804	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050	50.00		85.7	69	130				
Surr: Chlorobenzene - d5	42.837										

Sample ID: N050259-001BMS		SampType: MS		TestCode: 8015GAS_WU		Units: mg/L		Prep Date:		RunNo: 161575	
Client ID: ZZZZZZ		Batch ID: E22VW039		TestNo: EPA 8015B				Analysis Date: 4/13/2022		SeqNo: 4598808	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.072	0.050	1.000	0	107	49	156				
Surr: Chlorobenzene - d5	48.707		50.00		97.4	69	130				

Sample ID: N050259-001BMSD		SampType: MSD		TestCode: 8015GAS_WU		Units: mg/L		Prep Date:		RunNo: 161575	
Client ID: ZZZZZZ		Batch ID: E22VW039		TestNo: EPA 8015B				Analysis Date: 4/13/2022		SeqNo: 4598809	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.195	0.050	1.000	0	120	49	156	1.072	10.9	20	
Surr: Chlorobenzene - d5	52.635		50.00		105	69	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out	Calculations are based on raw values			



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Eaton Analytical

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

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS:

SAMPLE TEMP RECEIVED AT: Asset Labs
 Colton / No. California / Arizona 2.8 °C (Compliance: 4 ± 2 °C)
 Monrovia 5.4 °C (Compliance: 4 ± 2 °C)

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

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx UPS / DHL / Area Fast / Top Line / Other: FedEx # 0040

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

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

Ice packs.

FedEx # 0040

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: BWS HONOLULU	PROJECT CODE: Special	COMPLIANCE SAMPLES <input type="checkbox"/> (check for yes)	NON-COMPLIANCE SAMPLES <input checked="" type="checkbox"/> (check for yes)
EEA CLIENT CODE:	SAMPLE GROUP: RESIDENTIAL TPH TESTING	REGULATION INVOLVED: (eg. SDWA, Phase V, NPDES, FDA,...)	
TAT requested: rush by adv notice only	STD: 1 wk <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> 2 day <input type="checkbox"/> 1 day <input type="checkbox"/>	SEE ATTACHED BOTTLE ORDER FOR ANALYSES list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	ASSET Labs	TPH 8015	Diesel and Motor Oil C	8015 Gac C	8016 Gac C TB	EA-Monrovia	VOASDWA C	VOASDWA T	FTGS	8270Sims	WA C	8270E_MA	C (BN: BCRET)	SAMPLER COMMENTS		
04/08/22	1300	[REDACTED] Ft Weaver Rd	N050259-01	CFW			3270 Direct Shipped for 3d TAT to Eurofins Frontier Global Sciences, LLC 5755 8th St E Tacoma WA, 98424 Attn Sample Receiving / Elaine Walker +1 253-248-4872														residential hosebib	
							8015 Direct Shipped for 3d TAT to ASSET Laboratories 3151 W. Post Road Las Vegas, NV 89118 Attn Sample Control / Marlon Carlin 702 307 2659															

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

SAMPLED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[REDACTED]	Lesli Laanui	Honolulu Board of Water Supply	4/8/2022	
RECEIVED BY:	[REDACTED]	[REDACTED]	Honolulu Board of Water Supply	4/11/22	1126
RELINQUISHED BY:	[REDACTED]	Yuan Cao Rodriguez	ASSET	4/12/22	0934
RECEIVED BY:	[REDACTED]				

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 4/12/2022 Workorder: N050259
 Rep sample Temp (Deg C): 2.8 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 0040 Packing Material Used: Bubble Wrap
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments: Sample 2: Same collection date and time of the associated field sample (sample 1).

Checklist Completed By: YR YRJ 4/12/2022

Reviewed By: MBC 4/12/2022

ASSET Laboratories

WORK ORDER Summary

14-Apr-22

WorkOrder: N050259

Client ID: EUROF01

Project: BWS HONOLULU

QC Level: RTNE

Date Received: 4/12/2022

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hid	MS	Sub	Storage
N050259-001A	998402_202204120173 EPA Wastewater Data	4/8/2022 1:00:00 PM	4/14/2022	r(am)inated Finished	3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N050259-001B			4/14/2022		EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			4/14/2022		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050259-002A	998402_202204120176_Trip Data		4/14/2022		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050259-003A	FOLDER	4/14/2022	4/14/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			4/14/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

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

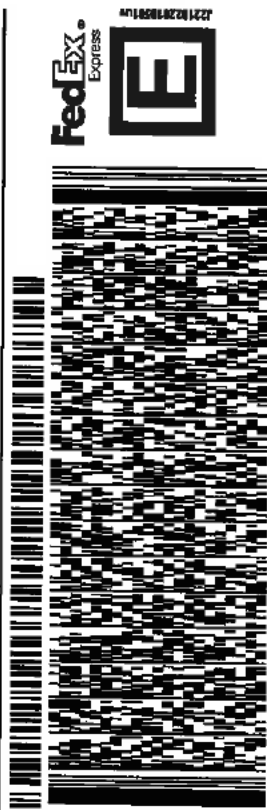
SHIP DATE: 11APR22
ACTWGT: 25.00 LB
CAD: 100205410/NET/4480

BILL RECIPIENT

TO **SAMPLE CONTROL MARLON CARTIN**
ASSET LABORATORIES
3151 WEST POST ROAD

LAS VEGAS NV 89118
REF: (702) 307-2859
INV:
PO:

DEPT:



TUE - 12 APR 10:30A
PRIORITY OVERNIGHT

TRK# **7765 5161 0040**

WR LASA
89118
NV-US LAS



2.86 IN# 3

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56J02/BDF9/FE4A