

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: 996247
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
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x		Hardness	SM 2340 B	x	x
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x	Hexavalent Chromium	EPA 218.6,	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x	Hexavalent Chromium	EPA 218.7,	x	
Heterotrophic Bacteria	SM 9215 B	x		Hexavalent Chromium	SM 3500-Cr B		x
Legionella	Legiolert®	x		Inorganic Anions and DBPs	EPA 300.0	x	x
Pseudomonas aeruginosa	Idexx Pseudalart	x		Norganic Anions and DBPs	EPA 300.1	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x	Kjeldahl Nitrogen	EPA 351.2		x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x	Metals	EPA 200.7, EPA200.8	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x		Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Total Microcystins and Nodularins	EPA 546	X		Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Yeast and Mold	SM 9610	x		Odor	SM2150B	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x		Organohalide Pesticides and PCB	EPA 505	x	
1,4-Dioxane	EPA 522	x		Ortho Phosphate	SM 4500P E	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x		Oxyhalides 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 #: 996247

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 **March 31, 2022 at 1006**. 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
202204010038	<div style="background-color: black; width: 20px; height: 15px; display: inline-block;"></div> Tantalus Dr Variable ID: N050076-01 Static ID: KeAina (SUB)Gas Fraction Hydrocarbons TPH 8015 Diesel and Motor Oil	03/30/2022 0945
202204010039	Travel Blank C (SUB)Gas Fraction Hydrocarbons	03/30/2022 0945

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)

996247
b6an041822

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

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

SAMPLE TEMP RECEIVED AT: ASSET
 Colton / No. California / Arizona 2-4 °C (Compliance: 4 ± 2 °C)
 Monrovia 3 °C (Compliance: 4 ± 2 °C) *See packets*

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

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: Fedex # : 9214

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

COMPANY/AGENCY NAME: BWS HONOLULU

PROJECT CODE: _____

COMPLIANCE SAMPLES: - Requires state forms

NON-COMPLIANCE SAMPLES: x

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

EEA CLIENT CODE: _____

COC ID: _____

SAMPLE GROUP: _____

RESIDENTIAL TPH TESTING: _____

SAMPLE ID: _____

CLIENT LAB ID: N050076-01

TAT requested: rush by adv notice only

STD: ___ 1 wk ___ 5 day ___ X ___ 2 day ___ 1 day

SAMPLE DATE: 3-30-2022

SAMPLE TIME: 08:15

ASSET Labs
 TPH 8015
 Diesel and Motor Oil C
 8015 Gac C
 8015 Gac C TB
 EEA-Monrovia
 VOASDWA C
 VOASDWA T
 EFGS
 82709 m
 WAC
 82709 TWA
 C (BN)
 BCEF+

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

SEE ATTACHED BOTTLE ORDER FOR ANALYSES

SAMPLER COMMENTS: _____

Temp Blank: 0.5 °C

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

SAMPLED BY: _____

RELINQUISHED BY: _____

RECEIVED BY: Yolandra Rodriguez

RELINQUISHED BY: _____

RECEIVED BY: _____

PRINT NAME: Derek Datson
 Derek Datson

SIGNATURE: _____

COMPANY/TITLE: Honolulu Board of Water Supply
 Honolulu Board of Water Supply

DATE: 3-30-2022
3-30-2022
3/31/22

TIME: _____

1200
1006

PAGE 1 OF 1

Tel: (626) 386-1100
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Laboratory Comments

Report: 996247
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
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Laboratory Hits

Report: 996247
Project: SPECIAL
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ASSET

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

Samples Received on:
03/31/2022 1006

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

Tel: (626) 386-1100
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Laboratory Data

Report: 996247
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:
 03/31/2022 1006

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<u>Tantalus Dr (202204010038)</u>						Sampled on 03/30/2022 0945			
Variable ID: N050076-01									
Static ID: KeAina									
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/01/22	04/01/22 10:53			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
04/01/22	04/01/22 17:54			(SW 8015B)	TPH Diesel	ND	ug/L	50	1
04/01/22	04/01/22 17:54			(SW 8015B)	TPH Motor Oil	ND	ug/L	50	1
<u>Travel Blank C (202204010039)</u>						Sampled on 03/30/2022 0945			
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/01/22	04/01/22 12:26			(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.



Eaton Analytical

Tel: (626) 386-1100
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Laboratory QC Summary

Report: 996247
Project: SPECIAL
Group: RESIDENTIAL TPH TESTING -
ASSET

Honolulu Board of Water Supply

Analytical Batch:

Analysis Date:

Analyzed by:



Eaton Analytical

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

Laboratory QC

Report: 996247
Project: SPECIAL
Group: RESIDENTIAL TPH TESTING - ASSET

Honolulu Board of Water Supply

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
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by

Analytical Batch:

Analysis Date:

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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Laboratory Hits

Report: 996247
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ASSET

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

Samples Received on:
03/31/2022 1006

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
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SUMMARY OF POSITIVE DATA ONLY

April 04, 2022

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

Workorder No.: N050076

RE: BWS HONOLULU


Attention: Debbie Frank

Enclosed are the results for sample(s) received on March 31, 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

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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

CLIENT: Eurofins
Project: BWS HONOLULU
Lab Order: N050076

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: N050076
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N050076-001A	996247_202204010038_█ Tantalus Dr	Chlor(am)inated Fi	3/30/2022 9:45:00 AM	3/31/2022	4/4/2022
N050076-001B	996247_202204010038_█ Tantalus Dr	Chlor(am)inated Fi	3/30/2022 9:45:00 AM	3/31/2022	4/4/2022
N050076-002A	996247_202204010039_Trav el Blank C	Chlor(am)inated Fi	3/30/2022 9:45:00 AM	3/31/2022	4/4/2022



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 04-Apr-22

CLIENT: Eurofins	Client Sample ID: 996247_202204010038	██████ Tantal
Lab Order: N050076	Collection Date: 3/30/2022 9:45:00 AM	
Project: BWS HONOLULU	Matrix: CHLOR(AM)INATED FINISHED W	
Lab ID: N050076-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TPH CARBON CHAIN EPA 8015						
EPA 3510C			EPA 8015B(M)			
RunID: NV00922-GC1_220401A	QC Batch: 92167				PrepDate: 4/1/2022	Analyst: MCC
Diesel Range Organics (C10-C28)	ND	50		ug/L	1	4/1/2022 05:54 PM
Oil Range Organics (C28-C40)	ND	50		ug/L	1	4/1/2022 05:54 PM
Surr: p-Terphenyl	93.3	33-138		%REC	1	4/1/2022 05:54 PM
GASOLINE RANGE ORGANICS BY GC/FID						
EPA 8015B						
RunID: NV00922-GC4_220401A	QC Batch: E22VW034				PrepDate:	Analyst: QBM
GRO	ND	0.050		mg/L	1	4/1/2022 10:53 AM
Surr: Chlorobenzene - d5	104	69-130		%REC	1	4/1/2022 10:53 AM

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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ORELAP/NELAP Cert 4046

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ANALYTICAL RESULTS

Print Date: 04-Apr-22

CLIENT: Eurofins	Client Sample ID: 996247_202204010039_Travel Blan
Lab Order: N050076	Collection Date: 3/30/2022 9:45:00 AM
Project: BWS HONOLULU	Matrix: CHLOR(AM)INATED FINISHED W
Lab ID: N050076-002	

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

EPA 8015B

RunID: NV00922-GC4_220401A	QC Batch: E22VW034	PrepDate:	Analyst: QBM		
GRO	ND	0.050	mg/L	1	4/1/2022 12:26 PM
Surr: Chlorobenzene - d5	106	69-130	%REC	1	4/1/2022 12:26 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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ELAP Cert 2676 | NV Cert NV00922
ORELAP/NELAP Cert 4046

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ASSET Laboratories

Date: 04-Apr-22

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N050076
Project: BWS HONOLULU

TestCode: 8015DM_W_CC

Sample ID: MB-92167	SampType: MBLK	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/1/2022	RunNo: 161258						
Client ID: PBW	Batch ID: 92167	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/1/2022	SeqNo: 4585054						
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	68.712		80.00		85.9	33	138				

Sample ID: LCS-92167	SampType: LCS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/1/2022	RunNo: 161258						
Client ID: LCSW	Batch ID: 92167	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/1/2022	SeqNo: 4585055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	697.996	50	1000	0	69.8	48	120				
Surr: p-Terphenyl	77.053		80.00		96.3	33	138				

Sample ID: N050076-001A-MS	SampType: MS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/1/2022	RunNo: 161258						
Client ID: ZZZZZZ	Batch ID: 92167	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/1/2022	SeqNo: 4585057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	716.766	50	1000	0	71.7	48	120				
Surr: p-Terphenyl	73.752		80.00		92.2	33	138				

Sample ID: N050076-001A-MSD	SampType: MSD	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/1/2022	RunNo: 161258						
Client ID: ZZZZZZ	Batch ID: 92167	TestNo: EPA 8015B(M EPA 3510C)		Analysis Date: 4/1/2022	SeqNo: 4585058						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	691.851	50	1000	0	69.2	48	120	716.8	3.54	20	
Surr: p-Terphenyl	67.908		80.00		84.9	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: N050076
Project: BWS HONOLULU

TestCode: 8015GAS_WU

Sample ID: E220401LCS	SampType: LCS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161260						
Client ID: LCSW	Batch ID: E22VW034	TestNo: EPA 8015B		Analysis Date: 4/1/2022	SeqNo: 4584737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	0.849	0.050	1.000	0	84.9	69	143				
Surr: Chlorobenzene - d5	47.720		50.00		95.4	69	130				

Sample ID: E220401MB1	SampType: MBLK	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161260						
Client ID: PBW	Batch ID: E22VW034	TestNo: EPA 8015B		Analysis Date: 4/1/2022	SeqNo: 4584738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	ND	0.050			102	69	130				
Surr: Chlorobenzene - d5	50.925		50.00								

Sample ID: N050076-001BMS	SampType: MS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161260						
Client ID: ZZZZZ	Batch ID: E22VW034	TestNo: EPA 8015B		Analysis Date: 4/1/2022	SeqNo: 4584740						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	1.169	0.050	1.000	0	117	49	156				
Surr: Chlorobenzene - d5	52.726		50.00		105	69	130				

Sample ID: N050076-001BMSD	SampType: MSD	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161260						
Client ID: ZZZZZ	Batch ID: E22VW034	TestNo: EPA 8015B		Analysis Date: 4/1/2022	SeqNo: 4584741						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

GRO	1.167	0.050	1.000	0	117	49	156	1.169	0.171	20	
Surr: Chlorobenzene - d5	50.273		50.00		101	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			



 "Serving Clients with Passion and Professionalism"
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 EPA ID: CA01638 ORELAP/NELAP Cert 4046



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: _____

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

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

SAMPLE TEMP RECEIVED AT: ASSET
 Colton / No. California / Arizona 2-4 °C (Compliance: 4 ± 2 °C)
 Monrovia 3 °C (Compliance: 4 ± 2 °C)
See packets

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: Fedex #: 9214

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

COMPANY/AGENCY NAME: BWS HONOLULU

PROJECT CODE: _____

COMPLIANCE SAMPLES: (check for yes)

NON-COMPLIANCE SAMPLES: x

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

EEA CLIENT CODE: _____

COC ID: _____

SAMPLE GROUP: _____

RESIDENTIAL TPH TESTING: _____

STD 1 wk 5 day X 2 day 1 day

TAT requested: rush by adv notice only

SAMPLE ID: Tantalus Dr

CLIENT LAB ID: N050076-01

ASSET LABS: _____

TPH 8015: 3

Diesel and Motor Oil C: _____

8015 Gac C: 4

8015 Gac C TB: 2

EA-Monrovia: _____

VOASDWA C: _____

VOASDWA T: _____

EFGS: _____

WAC: _____

8270 m: _____

WAC: _____

8270 m: _____

C (BN): _____

BCE(+): _____

SAMPLE DATE: 3-30-2022

SAMPLE TIME: _____

8015 Direct Shipped for 3d TAT to:
 ASSET Laboratories
 3151 W Post Road
 Las Vegas, NV 89118
 Attn: Sample Control / Marlon Caron
 702 307 2669

8270 Direct Shipped for 3d TAT to:
 Eurofins Frontier Global Sciences, LLC
 5755 8th St E
 Tacoma WA, 98424
 Attn: Sample Receiving / Elaine Walker
 +1 253-248-4972

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

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

SEE ATTACHED BOTTLE ORDER FOR ANALYSES
 list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLER COMMENTS: _____

Temp Blank: 0.5 °C

*** MATRIX TYPES:** RSW = Raw Surface Water
 RGW = Raw Ground Water
 CFW = Chlor(am)inated 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	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:		Derek Datson	Honolulu Board of Water Supply	3-30-2022	1200
RECEIVED BY:		Derek Datson	Honolulu Board of Water Supply	3-30-2022	1200
RELINQUISHED BY:		Yolandra Rodriguez	ASSET	3/31/22	1006
RECEIVED BY:					

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: 3/31/2022 Workorder: N050076
 Rep sample Temp (Deg C): 2.6 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 9217 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 checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input 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* 4/1/2022

Reviewed By: *ABC*

ASSET Laboratories

WORK ORDER Summary

02-Apr-22

WorkOrder: N050076

Client ID: EUROF01

Project: BWS HONOLULU

QC Level: RTNE

Date Received: 3/31/2022

Comments: MRL only

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N050076-001A	996247_202204010038 Tentative Dr	3/30/2022 9:45:00 AM	4/4/2022	r(am)inated Finished	WEPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N050076-001B			4/4/2022		EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N050076-002A	996247_202204010039_Trave 1.Dr		4/4/2022		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050076-003A	FOLDER	4/4/2022	4/4/2022		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			4/4/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			4/4/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ORIGIN ID:HIKA (808) 748-5840
BWS CHEMLAB

630 S. BERETANIA ST.

HONOLULU, HI 96843
UNITED STATES US

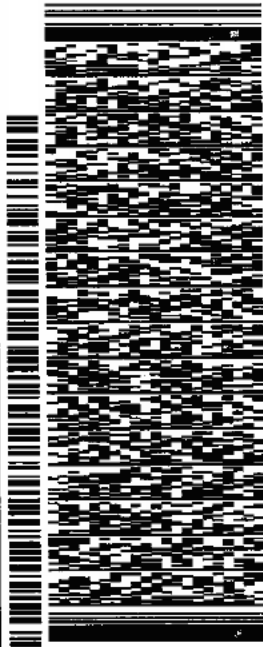
SHIP DATE: 30MAR22
ACTWGT: 40.00 LB
CAD: 100205418/INET4480

BILL RECIPIENT

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

LAS VEGAS NV 89118
REF: (702) 307-2659
INV. P.O.

DEPT.



THU - 31 MAR 10:30A
PRIORITY OVERNIGHT

TRK# **7764 4796 9217**
0201

89118
NV-US **LAS**

WR LASA



2.6g
inf 3.

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