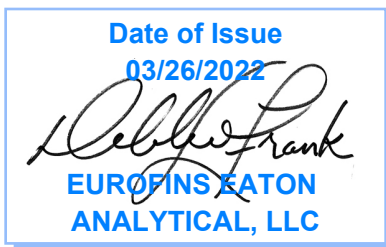


750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

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: 993479
Project: INTERA
Group: MW - INTERA Albuquerque+

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

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

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

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

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

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

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

STATE CERTIFICATION LIST

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

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

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

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

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

Test(s)	Method(s)	Potable Water *	Waste Water	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 Disinfection Byproducts	EPA 317.0	x	
Acrylamide	+ LCMS 2440)	x		Perchlorate	EPA 331.0	x	
Algal Toxins/Microcystin	+ 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 #: 993479
Project: INTERA
Sample Group: MW - INTERA Albuquerque+

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

The following samples were received from you on **March 16, 2022** at **1025**. 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
202203170216	BWS2253-J1-AQ	03/15/2022 0930
	Variable ID: N049851-01	
	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil
202203170217	BWS2253-J1-TB	03/15/2022 0930
	Variable ID: N049851-02	
	(SUB)Gas Fraction Hydrocarbons	

Test Description

993479
b6an031722



Eaton Analytical

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 LABS 3.3? 12#3

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

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

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

METHOD OF SHIPMENT: Pick-Up / Walk-in / FedEx / UPS / DHL / Area Fast / Top Line / Other: FedEx # 52 86

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: _____ (check for yes)

COMPANY/AGENCY NAME: Honolulu Board of Water Supply

PROJECT CODE: RED HILL

SAMPLE GROUP: MW - INTERA Albuquerque +

EEA CLIENT CODE: HONOLULU COC ID: _____

TAT requested: rush by adv notice only: **RUSH** STD ___ 1 wk ___ 3 day ___ X ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA
3/15/22	04:30	N049851-01	BWS2253-J1-AQ	RGW		
3/15/22	04:30	-02	BWS2253-J1-TB	BW		

COMPLIANCE SAMPLES **NON-COMPLIANCE SAMPLES**

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

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

SHIP TO: Asset Laboratories
3151 West Post Road
Las Vegas NV 89118
702-307-2659
Attn: Marlon Cartin
marlon@assetlaboratories.com

Bill and Report to EEA-Monrovia

TPH 8015 Diesel and Motor Oil 4
8015 Gas Travel Blank 2
8015 Gas 4

SAMPLER COMMENTS:
Provided by EEA
Kit# 304306

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

SIGNED BY: *Justin Barnes* **SIGNATURE:** *Justin Barnes* **PRINT NAME:** Kevin Fong/Justin Barnes **COMPANY/TITLE:** The Limitaco Consulting Group **DATE:** 3/15/22 **TIME:** 9:30 AM

RELINQUISHED BY: *Justin Barnes* **RELINQUISHED BY:** *Justin Barnes* **DATE:** 3/15/22 **TIME:** 11:30 AM

RECEIVED BY: *Justin Barnes* **RECEIVED BY:** *Justin Barnes* **DATE:** 3/16/22 **TIME:** 1025 AM

993479
b6an031722



Eaton Analytical

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

euofins | 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)

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: ASSET LABS 3.3? 12#3

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

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

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

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

FedEx # 52 86

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Honolulu Board of Water Supply

PROJECT CODE: RED HILL

EEA CLIENT CODE: HONOLULU

COC ID: _____

SAMPLE GROUP: MW - INTERA Albuquerque +

STD: ___ 1 wk ___ 3 day ___ X ___ 2 day ___ 1 day

TAT requested: rush by adv notice only: **RUSH**

COMPLIANCE SAMPLES **NON-COMPLIANCE SAMPLES**

- Requires state forms _____ REGULATION INVOLVED: _____

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

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	TPH 8015 Diesel and Motor Oil	8015 Gas Travel Blank	8015 Gas	SAMPLER COMMENTS
3/15/22	04:30	N049851-01	BWS2253-J1-AQ	RGW			4	4	4	Kit# 309306 Provided by EEA
3/15/22	04:30	-02	BWS2253-J1-TB	BW			2			

Ship to: Asset Laboratories
 3151 West Post Road
 Las Vegas NV 89118
 702-307-2659
 Attn: Marlon Cartin
 marlon@assetlaboratories.com

Bill and Report to EEA-Monrovia

*** MATRIX TYPES:** RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil

RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge

SAMPLED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	<i>Justin Barnes</i>	Kevin Fong/Justin Barnes	The Limitaco Consulting Group	3/15/22	9:30 AM
RECEIVED BY:	<i>Justin Barnes</i>	Kevin Fong/Justin Barnes	The Limitaco Consulting Group	3/15/22	11:30 AM
RELINQUISHED BY:	<i>Justin Barnes</i>	Justin Barnes	ASSET LABS	3/16/22	1025 AM
RECEIVED BY:					

993479
b6an031722



Eaton Analytical

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

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

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: _____
SAMPLES LOGGED IN BY: _____
SAMPLES REC'D DAY OF COLLECTION? (check for yes)

SAMPLE TEMP RECEIVED AT: **ASSET LABS 3.3° 1B#3**

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

CONDITION OF BLUE ICE: Frozen _____ Thawed _____ Wet Ice _____ No Ice _____
METHOD OF SHIPMENT: Pick-Up / Walk-in / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

FedEx # 52 86

TO BE COMPLETED BY SAMPLER:

(check for yes)

COMPANY/AGENCY NAME: Honolulu Board of Water Supply	PROJECT CODE: RED HILL	COMPLIANCE SAMPLES <input type="checkbox"/> Requires state forms	NON-COMPLIANCE SAMPLES <input checked="" type="checkbox"/> REGULATION INVOLVED:
EEA CLIENT CODE: HONOLULU	SAMPLE GROUP: MW - INTERA Albuquerque +	Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)	
TAT requested: rush by adv notice only: RUSH		SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), OR	

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA
3/15/22	04:30	N049851-01	BWS2253-J1-AQ	RGW		
3/15/22	04:30	-02	BWS2253-J1-TB	BW		

TPH 8015 Diesel and Motor Oil 4

8015 Gas Travel Blank 2

8015 Gas 4

Kit# 309306
Provided by EEA

SHIP TO: Asset Laboratories
3151 West Post Road
Las Vegas NV 89118
702-307-2659
Attn: Marlon Cartin
marlon@assetlaboratories.com

Bill and Report to EEA-Monrovia

SAMPLER COMMENTS

* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil

RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge

SAMPLED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	<i>Justin Barnes</i>	Kevin Fong/Justin Barnes	The Limitaco Consulting Group	3/15/22	9:30 AM
RECEIVED BY:	<i>Justin Barnes</i>	Kevin Fong/Justin Barnes	The Limitaco Consulting Group	3/15/22	11:30 AM
RELINQUISHED BY:	<i>Justin Barnes</i>	Justin Barnes	ASSET LABS	3/16/22	1025 AM
RECEIVED BY:					

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

Laboratory Comments

Report: 993479
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Folder Comments

Results for Gasoline Range Organics by GC/FID and TPH Carbon Chain are submitted by Asset Laboratories

EEA enters Subcontractor data into EEA system for archive tracking purposes. Please review Subcontract lab report for QC data and Qualifiers that are applicable to the reported data. Significant figures may vary due to system limitations. Please review Subcontractor's report in full.

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

Report: 993479
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
 03/16/2022 1025

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
	202203170216	<u>BWS2253-J1-AQ</u>				
03/18/2022 17:09	TPH Diesel		76		ug/L	50
03/18/2022 17:09	TPH Motor Oil		57		ug/L	50

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

Report: 993479
Project: INTERA
Group: MW - INTERA Albuquerque+

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

Samples Received on:
 03/16/2022 1025

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<u>BWS2253-J1-AQ (202203170216)</u>						Sampled on 03/15/2022 0930			
Variable ID: N049851-01									
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
03/16/22	03/16/22 21:11			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
03/17/22	03/18/22 17:09			(SW 8015B)	TPH Diesel	76	ug/L	50	1
03/17/22	03/18/22 17:09			(SW 8015B)	TPH Motor Oil	57	ug/L	50	1
<u>BWS2253-J1-TB (202203170217)</u>						Sampled on 03/15/2022 0930			
Variable ID: N049851-02									
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
03/16/22	03/16/22 22:43			(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.

March 21, 2022

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

Workorder No.: N049851

RE: RED HILL


Attention: Debbie Frank

Enclosed are the results for sample(s) received on March 16, 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: RED HILL
Lab Order: N049851

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.

Analytical Comments for EPA 8015B_DRO/ORO:

RPD of Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside criteria for TPH-Diesel in QC samples N049851-001-MS/MSD possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: Eurofins
Project: RED HILL
Lab Order: N049851
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N049851-001A	993479_202203170216_BW S2253-J1-AQ	Raw Groundwater	3/15/2022 9:30:00 AM	3/16/2022	3/21/2022
N049851-001B	993479_202203170216_BW S2253-J1-AQ	Raw Groundwater	3/15/2022 9:30:00 AM	3/16/2022	3/21/2022
N049851-002A	993479_202203170217_BW S2253-J1-TB	Bottled Water	3/15/2022 9:30:00 AM	3/16/2022	3/21/2022



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 21-Mar-22

CLIENT: Eurofins
Lab Order: N049851
Project: RED HILL
Lab ID: N049851-001

Client Sample ID: 993479_202203170216_BWS2253-J
Collection Date: 3/15/2022 9:30:00 AM
Matrix: RAW GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

TPH CARBON CHAIN EPA 8015

EPA 3510C		EPA 8015B(M)				
RunID: NV00922-GC1_220318B	QC Batch: 91951				PrepDate: 3/17/2022	Analyst: MCC
Diesel Range Organics (C10-C28)	76	50		ug/L	1	3/18/2022 05:09 PM
Oil Range Organics (C28-C40)	57	50		ug/L	1	3/18/2022 05:09 PM
Surr: p-Terphenyl	74.9	33-138		%REC	1	3/18/2022 05:09 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B						
RunID: NV00922-GC4_220316A	QC Batch: E22VW028				PrepDate:	Analyst: DJ
GRO	ND	0.050		mg/L	1	3/16/2022 09:11 PM
Surr: Chlorobenzene - d5	94.4	69-130		%REC	1	3/16/2022 09:11 PM

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



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"

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 21-Mar-22

CLIENT: Eurofins
Lab Order: N049851
Project: RED HILL
Lab ID: N049851-002

Client Sample ID: 993479_202203170217_BWS2253-J
Collection Date: 3/15/2022 9:30:00 AM
Matrix: BOTTLED WATER

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

EPA 8015B

RunID: NV00922-GC4_220316A	QC Batch: E22VW028	PrepDate:	Analyst: DJ		
GRO	ND	0.050	mg/L	1	3/16/2022 10:43 PM
Surr: Chlorobenzene - d5	102	69-130	%REC	1	3/16/2022 10:43 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

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
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"Serving Clients with Passion and Professionalism"

ASSET Laboratories

Date: 21-Mar-22

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
 Work Order: N049851
 Project: RED HILL

TestCode: 8015DM_W_CC

Sample ID: MB-91951	SampType: MBLK	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/17/2022	RunNo: 160949		
Client ID: PBW	Batch ID: 91951	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/18/2022	SeqNo: 4569634		
Analyte	Result	PQL	SPK value	SPK Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	ND	50					
Oil Range Organics (C28-C40)	ND	50					
Surr: p-Terphenyl	72.793		80.00	33	138		
			91.0				

Sample ID: LCS-91951	SampType: LCS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/17/2022	RunNo: 160949						
Client ID: LCSW	Batch ID: 91951	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/18/2022	SeqNo: 4569635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	713.877	50	1000	0	71.4	48	120				
Surr: p-Terphenyl	77.876		80.00		97.3	33	138				

Sample ID: N049851-001B-MS	SampType: MS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/17/2022	RunNo: 160949						
Client ID: ZZZZZZ	Batch ID: 91951	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/18/2022	SeqNo: 4569637						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	759.954	50	1000	76.46	68.3	48	120				
Surr: p-Terphenyl	71.082		80.00		88.9	33	138				

Sample ID: N049851-001B-MSD	SampType: MSD	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 3/17/2022	RunNo: 160949						
Client ID: ZZZZZZ	Batch ID: 91951	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 3/18/2022	SeqNo: 4569638						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	572.795	50	1000	76.46	49.6	48	120	760.0	28.1	20	R
Surr: p-Terphenyl	57.035		80.00		71.3	33	138		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

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

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GAS_WU

CLIENT: Eurofins
 Work Order: N049851
 Project: RED HILL

Sample ID: E220316MB TestCode: 8015GAS_WU Units: mg/L Prep Date: RunNo: 160906
 Client ID: PBW Batch ID: E22VW028 TestNo: EPA 8015B Analysis Date: 3/16/2022 SeqNo: 4567427

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Chlorobenzene - d5	47.091		50.00		94.2	69	130				

Sample ID: E220316LCS TestCode: 8015GAS_WU Units: mg/L Prep Date: RunNo: 160906
 Client ID: LCSW Batch ID: E22VW028 TestNo: EPA 8015B Analysis Date: 3/16/2022 SeqNo: 4567428

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.970	0.050	1.000	0	97.0	69	143				
Surr: Chlorobenzene - d5	48.956		50.00		97.9	69	130				

Sample ID: N049851-001AMS TestCode: 8015GAS_WU Units: mg/L Prep Date: RunNo: 160906
 Client ID: ZZZZZZ Batch ID: E22VW028 TestNo: EPA 8015B Analysis Date: 3/16/2022 SeqNo: 4567430

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.768	0.050	1.000	0	76.8	49	156				
Surr: Chlorobenzene - d5	43.091		50.00		86.2	69	130				

Sample ID: N049851-001AMSD TestCode: 8015GAS_WU Units: mg/L Prep Date: RunNo: 160906
 Client ID: ZZZZZZ Batch ID: E22VW028 TestNo: EPA 8015B Analysis Date: 3/16/2022 SeqNo: 4567431

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.882	0.050	1.000	0	88.2	49	156	0.7680	13.8	20	
Surr: Chlorobenzene - d5	50.031		50.00		100	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

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

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

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY:

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

SAMPLES LOGGED IN BY:

SAMPLE TEMP RECEIVED AT: **ASSET LABS 3.3? 1B#3**

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

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

Monrovia °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 # 52 86

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Honolulu Board of Water Supply

PROJECT CODE: **RED HILL**

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES
 - Requires state forms REGULATION INVOLVED:

EEA CLIENT CODE: HONOLULU COC ID:

SAMPLE GROUP: MW - INTERA Albuquerque +
 STD ___ 1 wk ___ 3 day ___ X ___ 2 day ___ 1 day ___

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)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	COMPLIANCE SAMPLES		SAMPLER COMMENTS
							TPH 8015 Diesel and Motor Oil	8015 Gas	
3/15/22	04:30	N049851-01	BWS2253-J1-AQ	RGW			4	4	Kit# 304306 Provided by EEA
3/15/22	04:30	-02	BWS2253-J1-TB	BW			2		

Ship to: Asset Laboratories
 3151 West Post Road
 Las Vegas NV 89118
 702-307-2659
 Attn: Marlon Cartin
 marlon@assetlaboratories.com

Bill and Report to EEA-Monrovia

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

SAMPLED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	<i>Justin Barnes</i>	Kevin Fong/Justin Barnes	The Limitaco Consulting Group	3/15/22	9:30 AM
RECEIVED BY:	<i>Justin Barnes</i>	Kevin Fong/Justin Barnes	The Limitaco Consulting Group	3/15/22	11:30 AM
RELINQUISHED BY:	<i>Justin Barnes</i>	Justin Barnes	ASSET LABS	3/16/22	1025 AM
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: 3/16/2022 Workorder: N049851
 Rep sample Temp (Deg C): 3.3 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 5226 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).

For:
 Checklist Completed By: GGJ *YRT* 3/16/2022

Reviewed By: *MBC* 3/17/2022

ASSET Laboratories

WORK ORDER Summary

17-Mar-22

WorkOrder: N049851

Client ID: EUROF01

Project: RED HILL

Comments: MRL only

QC Level: RTNE

Date Received: 3/16/2022

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N049851-001A	993479_202203170216_BWS 2053 11 AC	3/15/2022 9:30:00 AM	3/18/2022	Raw Groundwater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N049851-001B			3/18/2022		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N049851-002A	993479_202203170217_BWS 2053 11 TP		3/18/2022	Bottled Water	EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N049851-003A	FOLDER	3/18/2022	3/18/2022		EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			3/18/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			3/18/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

