

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
04/12/2022

Rinda Seddos
EUROFINS EATON
ANALYTICAL, LLC



Utah ELCP CA00006

DEB: Debbie L Frank
Project Manager

Report: 997081
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 #: 997081
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 **April 06, 2022 at 0959**. 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
202204060633	BWS2253-J1-AQ	04/05/2022 0900
	Variable ID: N050158-01	
	(SUB)Gas Fraction Hydrocarbons	TPH 8015 Diesel and Motor Oil
202204060634	BWS2253-J1-TB	04/05/2022 0900
	(SUB)Gas Fraction Hydrocarbons	

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

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 MA 3 °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 / DHL / Area Fast / Top Line / Other: _____

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:

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
4/5	0900	N050158-01	BWS2253-J1-AQ	RGW			4	2	4	Kit# 312779 Provided by EEA
		-02	BWS2253-J1-TB	BW						

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

SIGNATURE _____ **PRINT NAME** Kevin Gooding

SAMPLED BY: Kevin Gooding **DATE** 4/5/22 **TIME** 0900

RELINQUISHED BY: _____ **DATE** 4/5/22 **TIME** 1045

RECEIVED BY: Yoon. Kw. Roh **DATE** 4/6/22 **TIME** 9:59 a

RELINQUISHED BY: _____

RECEIVED BY: _____

ASSET Laboratories

WORK ORDER Summary

06-Apr-22

WorkOrder: N050158

Client ID: EUROF01

Project: RED HILL

Comments: MRL only

QC Level: RTNE

Date Received: 4/6/2022

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N050158-001A	997081_202204060633_BWS 2022 11 11 AM	4/5/2022 9:00:00 AM	4/8/2022	Raw Groundwater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050158-001B			4/8/2022		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			4/8/2022		EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N050158-002A	997081_202204060634_BWS 2022 11 11 AM		4/8/2022	Bottled Water	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050158-003A	FOLDER	4/8/2022	4/8/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			4/8/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

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Laboratory Comments

Report: 997081
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 Gas Range Organics and TPH Carbon Chain are submitted by Asset Laboratories

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1 800 566 LABS (1 800 566 5227)

Report: 997081
Project: INTERA
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Honolulu Board of Water Supply
Erwin Kawata
630 South Beretania Street
Public Service Bldg." Room 308
Honolulu, HI 96843

Samples Received on:
04/06/2022 0959

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL
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Honolulu Board of Water Supply
 Erwin Kawata
 630 South Beretania Street
 Public Service Bldg." Room 308
 Honolulu, HI 96843

Samples Received on:
 04/06/2022 0959

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<u>BWS2253-J1-AQ (202204060633)</u>						Sampled on 04/05/2022 0900			
Variable ID: N050158-01									
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/07/22	04/07/22 12:54			(SW 8015B)	(SUB)Gas Fraction Hydrocarbons	ND	mg/L	0.05	1
SW 8015B - TPH 8015 Diesel and Motor Oil									
04/07/22	04/07/22 14:18			(SW 8015B)	TPH Diesel	ND	ug/L	50	1
04/07/22	04/07/22 14:18			(SW 8015B)	TPH Motor Oil	ND	ug/L	50	1
<u>BWS2253-J1-TB (202204060634)</u>						Sampled on 04/05/2022 0900			
SW 8015B - (SUB)Gas Fraction Hydrocarbons									
04/07/22	04/07/22 14:26			(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.

April 08, 2022

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

Workorder No.: N050158

RE: RED HILL


Attention: Debbie Frank

Enclosed are the results for sample(s) received on April 06, 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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CALIFORNIA | P: 562.219.7435 F: 562.219.7436
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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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: RED HILL
Lab Order: N050158

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: RED HILL
Lab Order: N050158
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N050158-001A	997081_202204060633_BW S2253-J1-AQ	Raw Groundwater	4/5/2022 9:00:00 AM	4/6/2022	4/8/2022
N050158-001B	997081_202204060633_BW S2253-J1-AQ	Raw Groundwater	4/5/2022 9:00:00 AM	4/6/2022	4/8/2022
N050158-002A	997081_202204060634_BW S2253-J1-TB	Bottled Water	4/5/2022 9:00:00 AM	4/6/2022	4/8/2022



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 08-Apr-22

CLIENT: Eurofins
Lab Order: N050158
Project: RED HILL
Lab ID: N050158-001

Client Sample ID: 997081_202204060633_BWS2253-J
Collection Date: 4/5/2022 9:00:00 AM
Matrix: RAW GROUNDWATER

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_220407A	QC Batch: 92279				PrepDate: 4/7/2022	Analyst: MCC
Diesel Range Organics (C10-C28)	ND	50		ug/L	1	4/7/2022 02:18 PM
Oil Range Organics (C28-C40)	ND	50		ug/L	1	4/7/2022 02:18 PM
Surr: p-Terphenyl	83.6	33-138		%REC	1	4/7/2022 02:18 PM

GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B

RunID: NV00922-GC4_220407A	QC Batch: E22VW035				PrepDate:	Analyst: DJ
GRO	ND	0.050		mg/L	1	4/7/2022 12:54 PM
Surr: Chlorobenzene - d5	98.6	69-130		%REC	1	4/7/2022 12:54 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 RESULTS

Print Date: 08-Apr-22

CLIENT: Eurofins
Lab Order: N050158
Project: RED HILL
Lab ID: N050158-002

Client Sample ID: 997081_202204060634_BWS2253-J
Collection Date: 4/5/2022 9:00:00 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_220407A	QC Batch: E22VW035	PrepDate:	Analyst: DJ		
GRO	ND	0.050	mg/L	1	4/7/2022 02:26 PM
Surr: Chlorobenzene - d5	100	69-130	%REC	1	4/7/2022 02:26 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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ASSET Laboratories

Date: 08-Apr-22

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
 Work Order: N050158
 Project: RED HILL

TestCode: 8015DM_W_CC

Sample ID: MB-92279	SampType: MBLK	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/7/2022	RunNo: 161408						
Client ID: PBW	Batch ID: 92279	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 4/7/2022	SeqNo: 4591386						
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	74.214		80.00			92.8	33	138			

Sample ID: LCS-92279	SampType: LCS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/7/2022	RunNo: 161408						
Client ID: LCSW	Batch ID: 92279	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 4/7/2022	SeqNo: 4591387						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	613.947	50	1000	0	61.4	48	120				
Surr: p-Terphenyl	67.620		80.00		84.5	33	138				

Sample ID: N050158-001B-MS	SampType: MS	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/7/2022	RunNo: 161408						
Client ID: ZZZZZZ	Batch ID: 92279	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 4/7/2022	SeqNo: 4591389						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	636.682	50	1000	0	63.7	48	120				
Surr: p-Terphenyl	67.006		80.00		83.8	33	138				

Sample ID: N050158-001B-MSD	SampType: MSD	TestCode: 8015DM_W_C	Units: ug/L	Prep Date: 4/7/2022	RunNo: 161408						
Client ID: ZZZZZZ	Batch ID: 92279	TestNo: EPA 8015B(M)	EPA 3510C	Analysis Date: 4/7/2022	SeqNo: 4591390						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel Range Organics (C10-C28)	691.131	50	1000	0	69.1	48	120	636.7	8.20	20	
Surr: p-Terphenyl	72.148		80.00		90.2	33	138		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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 ELAP Cert 2921 ELAP Cert 2676 | NV Cert NV00922
 EPA ID:CA01638 ORELAP/NELAP Cert 4046

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N050158
Project: RED HILL

TestCode: 8015GAS_WP

Sample ID: **E220407LCS** SampType: **LCS** TestCode: **8015GAS_WP** Units: **mg/L** Prep Date: RunNo: **161401**
 Client ID: **LCSW** Batch ID: **E22VW035** TestNo: **EPA 8015B** Analysis Date: **4/7/2022** SeqNo: **4590955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.066	0.050	1.000	0	107	69	143				
Surr: Chlorobenzene - d5	47.684		50.00		95.4	69	130				

Sample ID: **E220407MB** SampType: **MBLK** TestCode: **8015GAS_WP** Units: **mg/L** Prep Date: RunNo: **161401**
 Client ID: **PBW** Batch ID: **E22VW035** TestNo: **EPA 8015B** Analysis Date: **4/7/2022** SeqNo: **4590956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Chlorobenzene - d5	48.143		50.00		96.3	69	130				

Sample ID: **N050158-001AMS** SampType: **MS** TestCode: **8015GAS_WP** Units: **mg/L** Prep Date: RunNo: **161401**
 Client ID: **ZZZZZ** Batch ID: **E22VW035** TestNo: **EPA 8015B** Analysis Date: **4/7/2022** SeqNo: **4590958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.161	0.050	1.000	0	116	49	156				
Surr: Chlorobenzene - d5	52.199		50.00		104	69	130				

Sample ID: **N050158-001AMSD** SampType: **MSD** TestCode: **8015GAS_WP** Units: **mg/L** Prep Date: RunNo: **161401**
 Client ID: **ZZZZZ** Batch ID: **E22VW035** TestNo: **EPA 8015B** Analysis Date: **4/7/2022** SeqNo: **4590959**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.310	0.050	1.000	0	131	49	156	1.161	12.1	20	
Surr: Chlorobenzene - d5	54.982		50.00		110	69	130		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
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference



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 EPA ID: CA01638 ORELAP/NELAP Cert 4046

ANALYTICAL QC SUMMARY REPORT

CLIENT: Eurofins
Work Order: N050158
Project: RED HILL

TestCode: 8015GAS_WU

Sample ID: E220407LCS	SampType: LCS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161401						
Client ID: LCSW	Batch ID: E22VW035	TestNo: EPA 8015B		Analysis Date: 4/7/2022	SeqNo: 4590949						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.066	0.050	1.000	0	107	69	143				
Surr: Chlorobenzene - d5	47.684		50.00		95.4	69	130				

Sample ID: E220407MB	SampType: MBLK	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161401						
Client ID: PBW	Batch ID: E22VW035	TestNo: EPA 8015B		Analysis Date: 4/7/2022	SeqNo: 4590950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050	50.00		96.3	69	130				
Surr: Chlorobenzene - d5	48.143										

Sample ID: N050158-001AMS	SampType: MS	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161401						
Client ID: ZZZZZ	Batch ID: E22VW035	TestNo: EPA 8015B		Analysis Date: 4/7/2022	SeqNo: 4590952						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.161	0.050	1.000	0	116	49	156				
Surr: Chlorobenzene - d5	52.199		50.00		104	69	130				

Sample ID: N050158-001AMSD	SampType: MSD	TestCode: 8015GAS_WU	Units: mg/L	Prep Date:	RunNo: 161401						
Client ID: ZZZZZ	Batch ID: E22VW035	TestNo: EPA 8015B		Analysis Date: 4/7/2022	SeqNo: 4590953						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.310	0.050	1.000	0	131	49	156	1.161	12.1	20	
Surr: Chlorobenzene - d5	54.982		50.00		110	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: _____ **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 MA 3 °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 / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Honolulu Board of Water Supply
PROJECT CODE: RED HILL
SAMPLE GROUP: MW - INTERA Albuquerque +
 STD ___ 1 wk ___ 3 day ___ X ___ 2 day ___ 1 day ___
TAT requested: rush by adv notice only: **RUSH**

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	COMPLIANCE SAMPLES - Requires state forms	NON-COMPLIANCE SAMPLES REGULATION INVOLVED:	SAMPLER COMMENTS
4/5	0900	N050158-01	BWS2253-J1-AQ	RGW				<input checked="" type="checkbox"/>	Kit# 312779
		-02	BWS2253-J1-TB	BW				<input checked="" type="checkbox"/>	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

*** 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

SIGNATURE: [Signature]
PRINT NAME: Kevin Gooding
COMPANY/TITLE: INTERA Incorporated / Senior Hydrogeologist
DATE: 4/5/22
TIME: 0900
RECEIVED BY: [Signature]
DATE: 4/5/22
TIME: 1045
RECEIVED BY: Yoon. Kw Robinswaj
DATE: 4/6/22
TIME: 9:59 a

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: 4/6/2022 Workorder: N050158
 Rep sample Temp (Deg C): 2.8 IR Gun ID: 3
 Temp Blank: Yes No
 Carrier name: FedEx
 Last 4 digits of Tracking No.: 2420 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* 4/6/2022

Reviewed By: *ABC* 4/6/2022

ASSET Laboratories

WORK ORDER Summary

06-Apr-22

WorkOrder: N050158

Client ID: EUROF01

Project: RED HILL

Comments: MRL only

QC Level: RTNE

Date Received: 4/6/2022

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N050158-001A	997081_202204060633_BWS 2022 11 11 AC	4/5/2022 9:00:00 AM	4/8/2022	Raw Groundwater	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050158-001B			4/8/2022		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			4/8/2022		EPA 8015B(M)	TPH Carbon Chain EPA 8015	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N050158-002A	997081_202204060634_BWS 2022 11 11 TD		4/8/2022	Bottled Water	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N050158-003A	FOLDER	4/8/2022	4/8/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			4/8/2022		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ORIGIN ID: HNLA (808) 382-6853
KEVIN GOODING
INTERA INC
74 KIHAPAI ST.
KAILUA, HI 96734
UNITED STATES US

SHIP DATE: 05APR22
ACTWGT: 43.45 LB
CAD: 8994243/SSFE2300
DIMS: 24x13x14 IN
BILL THIRD PARTY

Part # 156297-4832418182/47000906/22

TO **ASSET LABORATORIES**
SAMPLE RECEIVING
3151 WEST POST ROAD
ATTN: MARLON CARTIN SR PROJECT MGR
LAS VEGAS NV 89118

(702) 307-2650
PH:

REF: 0001.C002.REDHILL

DEPT:



FedEx
Express



MA1090102201227

TRK# 2716 8840 2420
0201

WED - 06 APR 10:30A
- PRIORITY OVERNIGHT

WR.LASA

AHS

89118

NV-US LAS



2.8°C
JFK 3