eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-78480-1
Client Project/Site: 974575 - RED-HILL-INCIDENT ([redacted] Bittern Ave)

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Monrovia, California 91016

Attn: Jaclyn Contreras

Authorized for release by:
12/14/2021 10:19:36 PM

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 11
Method Summary 12
Sample Summary 13
Chain of Custody 14
Receipt Checklists 17

Definitions/Glossary

Client: Eurofins Eaton Analytical
Job ID: 570-78480-1
Project/Site: 974575 - RED-HILL-INCIDENT ([redacted] Bittern Ave)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Eurofins Eaton Analytical
Job ID: 570-78480-1
Project/Site: 974575 - RED-HILL-INCIDENT ([redacted] Bittern Ave)

Job ID: 570-78480-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-78480-1

Comments
No additional comments.

Receipt
The sample was received on 12/11/2021 10:30 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Eurofins Eaton Analytical
Project/Site: 974575 - RED-HILL-INCIDENT ([redacted] Bittern Ave)

Job ID: 570-78480-1

Client Sample ID: 202112130021 **Lab Sample ID: 570-78480-1**

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: 202112130021
Date Collected: 12/09/21 11:44
Date Received: 12/11/21 10:30

Lab Sample ID: 570-78480-1
Matrix: Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C7 as C7	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C8 as C8	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C9-C10	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C11-C12	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C13-C14	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C15-C16	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C17-C18	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C19-C20	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C21-C22	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C23-C24	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C25-C28	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C29-C32	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C33-C36	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C37-C40	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C41-C44	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
C6-C44	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
Gasoline Range Organics (GRO)-C6-C10	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
Diesel Range Organics [C10-C28]	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1
Oil Range Organics (C28-C40)	ND		48		ug/L		12/13/21 09:56	12/13/21 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*107*		*53 - 151*	*12/13/21 09:56*	*12/13/21 16:49*	*1*

Surrogate Summary

Client: Eurofins Eaton Analytical
Project/Site: 974575 - RED-HILL-INCIDENT ([redacted] Bittern Ave)

Job ID: 570-78480-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	OTCSN1 (53-151)								
570-78480-1	202112130021	107								
LCS 570-200528/2-A	Lab Control Sample	107								
LCSD 570-200528/3-A	Lab Control Sample Dup	99								
MB 570-200528/1-A	Method Blank	119								

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-200528/1-A
Matrix: Water
Analysis Batch: 200572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200528

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C7 as C7	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C8 as C8	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C9-C10	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C11-C12	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C13-C14	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C15-C16	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C17-C18	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C19-C20	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C21-C22	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C23-C24	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C25-C28	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C29-C32	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C33-C36	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C37-C40	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C41-C44	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
C6-C44	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
Gasoline Range Organics (GRO)-C6-C10	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
Diesel Range Organics [C10-C28]	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1
Oil Range Organics (C28-C40)	ND		50		ug/L		12/13/21 09:56	12/13/21 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*119*		*53 - 151*	*12/13/21 09:56*	*12/13/21 13:16*	*1*

Lab Sample ID: LCS 570-200528/2-A
Matrix: Water
Analysis Batch: 200572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200528

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			4000	4380		ug/L		109	70 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*107*		*53 - 151*

Lab Sample ID: LCSD 570-200528/3-A
Matrix: Water
Analysis Batch: 200572

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 200528

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			4000	4131		ug/L		103	70 - 131	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*99*		*53 - 151*

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: 974575 - RED-HILL-INCIDENT [redacted] Bittern Ave)

Job ID: 570-78480-1

GC Semi VOA

Prep Batch: 200528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-78480-1	202112130021	Total/NA	Water	3510C	
MB 570-200528/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-200528/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-200528/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 200572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-200528/1-A	Method Blank	Total/NA	Water	8015B	200528
LCS 570-200528/2-A	Lab Control Sample	Total/NA	Water	8015B	200528
LCSD 570-200528/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	200528

Analysis Batch: 200600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-78480-1	202112130021	Total/NA	Water	8015B	200528

Lab Chronicle

Client: Eurofins Eaton Analytical
Project/Site: 974575 - RED-HILL-INCIDENT ([redacted] Bittern Ave)

Job ID: 570-78480-1

Client Sample ID: 202112130021
Date Collected: 12/09/21 11:44
Date Received: 12/11/21 10:30

Lab Sample ID: 570-78480-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			262.1 mL	2.5 mL	200528	12/13/21 09:56	UFLU	ECL 1
Total/NA	Analysis	8015B		1			200600	12/13/21 16:49	N5Y3	ECL 1
	Instrument ID: GC50									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical
Job ID: 570-78480-1
Project/Site: 974575 - RED-HILL-INCIDENT [redacted] Bittern Ave)

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22
Oregon	NELAP	CA300001	01-30-22

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: 974575 - RED-HILL-INCIDENT ([redacted] Bittern Ave)

Job ID: 570-78480-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: 974575 - RED-HILL-INCIDENT [redacted] Bittern Ave)

Job ID: 570-78480-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-78480-1	202112130021	Water	12/09/21 11:44	12/11/21 10:30

eurofins

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

570-78480 Chain of Custody

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:

☐ 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 _____

TO BE COMPLETED BY SAMPLER.

COMPANY/AGENCY NAME	PROJECT CODE
State of Hawaii DOH	HAWAII-DOH

EEA CLIENT CODE	Job#	SAMPLE GROUP
HAWAII	P-CARD	RED-HILL-INCIDENT

COMPLIANCE SAMPLES ☐ (check for yes) — NON-COMPLIANCE SAMPLES ☒ (check for yes)

- Requires state EDD ☐

REGULATION INVOLVED: Response Sampling (eg SDWA, Phase V NPDES, FDA,)

Type of samples (circle one) ROUTINE SPECIAL CONFIRMATION

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

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

Standard TAT — STD __ 1 wk __ 3 dayX_ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	Field pH	Source Temp (Celsius)	TPH 8015 Deisel and Motor oil	TPH 8015 Deisel and Motor oil (chlorinated)	SAMPLER COMMENTS
12/9/21	11:4	[redacted] Bittern Ave		Water			1	1	Tub Faucet

* **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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY	S Watanabe	SHIRLEY WATANABE	Hawaii Department of Health	12/9/21	2:57 pm
RELINQUISHED BY	S Watanabe	SHIRLEY WATANABE	Hawaii Department of Health	12/9/21	2:57 pm
RECEIVED BY	David Kawahara	DAVID KAWAHARA		12/9/21	1457
RELINQUISHED BY	D. Kawahara	D. KAWAHARA		12/10/21	1115
RECEIVED BY	Michael Ochs-Lms	Michael Ochs-Lms		12/11/21	1036

PAGE ____ OF ____

2.9/3 & 3cs

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Submittal Form

Date: 12/13/2021

Ship To:
`Eurofins CalScience
7440 Lincoln Way

Garden Grove, CA 92641-1432

Phone: 714-895-5494 Fax: 714-894-7501

*REPORTING REQUIRMENTS: ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!***
Report & Invoice must have the Folder # **974575** Job # **1000014**

Report all quality control data according to Method, Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from: **HAWAII**

Folder #: 974575 **Report Due:** 12/16/2021

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202112130021	[redacted] Bittern Ave	12/09/21 1144	DW		JLS

Sample type: **Sample Event:** **Facility ID:** **Sample Point ID:** **Static ID:** Extractable

Method	Prep Method	Analysis Requested
8015B M	EPA 3510C	6257_8015B(M) C6-C44

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

ORIGIN ID NAXA (808) 586-4258
SEILA ARONI
DEPARTMENT OF HEALTH/SDWB
2385 WAIMANO HOME RD
ULUAKUPU BLDG 4
PEARL CITY, HI 96782
UNITED STATES US

SHIP DATE: 10DEC21
ACTWGT 12.00 LB
CAD: 101971153/INET4400
DIMS: 16x12x14 IN

BILL SENDER

TO **XUAN DANG**
EUROFINS CALSCIENCE
7440 LINCOLN WAY

GARDEN GROVE CA 92641
(714) 895-5494 REF
INV
PO DEPT

56DJ3/E934/FE4A

FedEx Express

E

J212221101801uv

7 of 12

SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 0263 **7754 6325 0140**
Mstr# 7754 6324 7728 0201

92641
CA-US **SNA**

W0 APVA

570-78480 Waybill

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

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

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 570-78480-1

Login Number: 78480
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	