eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 12/12/2023 3:27:34 PM

JOB DESCRIPTION

HRS-340E - RED-HILL - INTERA

JOB NUMBER

380-67915-1

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

Eurofins Eaton Analytical Pomona

Job Notes

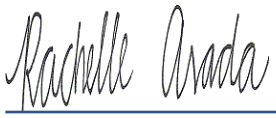
This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW,Water matrices)

Authorization



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Authorized for release by
Rachelle Arada, Project Manager
Rachelle.Arada@et.eurofinsus.com
(626)386-1106

Table of Contents

Definitions/Glossary

Client: City & County of Honolulu
Job ID: 380-67915-1
Project/Site: HRS-340E - RED-HILL - INTERA

Qualifiers

Subcontract

Qualifier	Qualifier Description
U	This analyte was not detected.

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

Job ID: 380-67915-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative
380-67915-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/19/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Subcontract Work
Methods 8015 Diesel LL (EAL) and Motor Oil, 8015 Gas (Purgeable) LL (EAL): These methods were subcontracted to EMAX Laboratories Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Detection Summary

Client: City & County of Honolulu
Job ID: 380-67915-1
Project/Site: HRS-340E - RED-HILL - INTERA

Client Sample ID: BWS2253-J1-AQ
Lab Sample ID: 380-67915-1

No Detections.

Client Sample ID: BWS2253-J1-TB
Lab Sample ID: 380-67915-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: City & County of Honolulu
Job ID: 380-67915-1
Project/Site: HRS-340E - RED-HILL - INTERA

Client Sample ID: BWS2253-J1-AQ
Lab Sample ID: 380-67915-1
Date Collected: 10/18/23 11:00
Matrix: Water
Date Received: 10/19/23 09:45

Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.03		mg/L			10/23/23 18:47	1
MOTOR OIL	ND	U	0.059		mg/L			10/23/23 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOBENZENE	*93*		*60 - 130*		*10/23/23 18:47*	*1*
HEXACOSANE	*94*		*60 - 130*		*10/23/23 18:47*	*1*

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.02		mg/L			10/19/23 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOFLUOROBENZENE	*88*		*60 - 140*		*10/19/23 21:06*	*1*

Client Sample ID: BWS2253-J1-TB
Lab Sample ID: 380-67915-2
Date Collected: 10/18/23 11:00
Matrix: Water
Date Received: 10/19/23 09:45

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.02		mg/L			10/19/23 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOFLUOROBENZENE	*91*		*60 - 140*		*10/19/23 21:45*	*1*

Surrogate Summary

Client: City & County of Honolulu
Project/Site: HRS-340E - RED-HILL - INTERA

Job ID: 380-67915-1

Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BB	XACOSA
Lab Sample ID	Client Sample ID	(60-130)	(60-130)
380-67915-1	BWS2253-J1-AQ	93	94

Surrogate Legend

BB = BROMOBENZENE
HEXACOSANE = HEXACOSANE

Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO

Matrix: WATER **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BB	XACOSA
Lab Sample ID	Client Sample ID		
23DSJ024WB	Method Blank		

Surrogate Legend

BB = BROMOBENZENE
HEXACOSANE = HEXACOSANE

Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO

Matrix: WATER **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BB	XACOSA
Lab Sample ID	Client Sample ID	(60-130)	(60-130)
23DSJ024WL	Lab Control Sample	70	89

Surrogate Legend

BB = BROMOBENZENE
HEXACOSANE = HEXACOSANE

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(60-140)
380-67915-1	BWS2253-J1-AQ	88
380-67915-2	BWS2253-J1-TB	91

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics

Matrix: WATER **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	
23VGH7J05B	Method Blank	

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Surrogate Summary

Client: City & County of Honolulu
Job ID: 380-67915-1
Project/Site: HRS-340E - RED-HILL - INTERA

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics

Matrix: WATER **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(70-130)
23VGH7J05C	LCD	106
23VGH7J05L	Lab Control Sample	101

Surrogate Legend

BFB = BROMOFLUOROBENZENE

Method: 8015 Diesel LL (EAL) and Motor Oil - 8015 - TPH DRO/ORO

Lab Sample ID: 23DSJ024WB
Matrix: WATER
Analysis Batch: 23DSJ024W

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DIESEL	ND	U	0.025		mg/L			10/23/23 13:28	1
MOTOR OIL	ND	U	0.05		mg/L			10/23/23 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOBENZENE					*10/23/23 13:28*	*1*
HEXACOSANE					*10/23/23 13:28*	*1*

Lab Sample ID: 23DSJ024WL
Matrix: WATER
Analysis Batch: 23DSJ024W

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DIESEL			2.5	2.1		mg/L		84	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BROMOBENZENE	*70*		*60 - 130*
HEXACOSANE	*89*		*60 - 130*

Method: 8015 Gas (Purgeable) LL (EAL) - EMAX - SW846 8015B Gasoline Range Organics

Lab Sample ID: 23VGH7J05B
Matrix: WATER
Analysis Batch: 23VGH7J05

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GASOLINE	ND	U	0.02		mg/L			10/19/23 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BROMOFLUOROBENZENE					*10/19/23 15:46*	*1*

Lab Sample ID: 23VGH7J05L
Matrix: WATER
Analysis Batch: 23VGH7J05

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
GASOLINE			0.5	0.425		mg/L		85	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BROMOFLUOROBENZENE	*101*		*70 - 130*

Subcontract

Analysis Batch: 23DSJ024W

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-67915-1	BWS2253-J1-AQ	Total/NA	Water	8015 Diesel LL (EAL) and Motor Oil	
23DSJ024WB	Method Blank	Total/NA	WATER	8015 Diesel LL (EAL) and Motor Oil	
23DSJ024WL	Lab Control Sample	Total/NA	WATER	8015 Diesel LL (EAL) and Motor Oil	

Analysis Batch: 23VGH7J05

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-67915-1	BWS2253-J1-AQ	Total/NA	Water	8015 Gas (Purgeable) LL (EAL) - EMAX	
380-67915-2	BWS2253-J1-TB	Total/NA	Water	8015 Gas (Purgeable) LL (EAL) - EMAX	
23VGH7J05B	Method Blank	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL) - EMAX	
23VGH7J05L	Lab Control Sample	Total/NA	WATER	8015 Gas (Purgeable) LL (EAL) - EMAX	

Lab Chronicle

Client: City & County of Honolulu
Project/Site: HRS-340E - RED-HILL - INTERA

Job ID: 380-67915-1

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-67915-1
Matrix: Water
Date Collected: 10/18/23 11:00
Date Received: 10/19/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 Diesel LL (EAL) and Motor Oil		1	23DSJ024W	SDees		10/23/23 18:47
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL) - EMAX		1	23VGH7J05	SCerva		10/19/23 21:06

Client Sample ID: BWS2253-J1-TB

Lab Sample ID: 380-67915-2
Matrix: Water
Date Collected: 10/18/23 11:00
Date Received: 10/19/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 Gas (Purgeable) LL (EAL) - EMAX		1	23VGH7J05	SCerva		10/19/23 21:45

Laboratory References:

= EMAX Laboratories Inc, 3051 Fujita Street, Torrance, CA 90505

Method Summary

Client: City & County of Honolulu
Project/Site: HRS-340E - RED-HILL - INTERA

Job ID: 380-67915-1

Method	Method Description	Protocol	Laboratory
8015	8015 - TPH DRO/ORO	EPA	
8015B	SW846 8015B Gasoline Range Organics	SW846	

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

= EMAX Laboratories Inc, 3051 Fujita Street, Torrance, CA 90505

Sample Summary

Client: City & County of Honolulu
Project/Site: HRS-340E - RED-HILL - INTERA

Job ID: 380-67915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-67915-1	BWS2253-J1-AQ	Water	10/18/23 11:00	10/19/23 09:45
380-67915-2	BWS2253-J1-TB	Water	10/18/23 11:00	10/19/23 09:45

EMAX LABORATORIES, INC.
3051 Fujita Street
Torrance, CA 90505
Tel: (310)-618-8889

Date: 12-12-2023
EMAX Batch No.: 23J182_R1

Attn: Jackie Contreras

Eurofins Eaton Analytical
750 Royal Oaks Dr., Suite 100
Monrovia, CA 91016-3629

Subject: Laboratory Report
Project: 380-67915

Enclosed is the Laboratory report for samples received on 10/19/23.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
380-67915-1	J182-01	10/18/23	WATER	TPH GASOLINE
				TPH DIESEL & MOTOR OIL
380-67915-2	J182-02	10/18/23	WATER	TPH GASOLINE

Note: Report was revised to correct the project # 380-67748 to 380-67915.

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912023-25
ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

23J182 (Revised COC)

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arada, Rachelle	Carrier Tracking No(s):	COC No: 380-86048.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: EMAX Laboratories Inc		Accreditations Required (See note): State - Hawaii		Job #: 380-67915-1
Address: 3051 Fujita Street,	Due Date Requested: 10/31/2023			
City: Torrance	TAT Requested (days):			
State, Zip: CA, 90505				
Phone:	PO #:			
Email:	WO #:			
Project Name: HRS-340E - RED-HILL - INTERA	Project #: 38002227			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sediment, Solid, Oil, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (8015 Gas (Purgeable) LL (EAL)) 8015 Gas (Purgeable) LL (EAL) - EMAX	SUB (8015 Diesel LL (EAL) and Motor Oil) 8015 Diesel LL (EAL) and Motor Oil	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
BWS2253-J1-AQ (380-67915-1)	10/18/23	11:00 Hawaiian		Water			X	X	8	See Attached Instructions
BWS2253-J1-TB (380-67915-2)	10/18/23	11:00 Hawaiian		Water			X		2	See Attached Instructions

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Pomona, CA
941 Corporate Center Drive
Pomona, CA 91768

Chain of Custody Record

23J182

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12/12/2023

Client Information	Sampler: E. Kakone	Lab PM: Arada, Rachelle	Carrier Tracking No(s): FEDEX	COC No:
Client Contact: Mr. Erwin Kawata	Phone: (858) 205-0730	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: HAWAII	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street	Due Date Requested:			
City: Honolulu	TAT Requested (days): STANDARD			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5066(Tel)	PO #: C20525101 exp 05312023			
Email: ekawata@hbws.org	WO #:			
Project Name: HRS-340E - RED-HILL - INTERA	Project #: 38002227			
Site: Site J	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - 625_PAH-Only+TICs	SUBCONTRACT - TPH 8015 Diesel and Motor Oil	SUBCONTRACT - TPH-8015 Jet Fuel-5	SUBCONTRACT - TPH-8015 Jet Fuel-8	SUBCONTRACT - 8015 Gas	PFAS-553-All-Analytes	PFAS-537.1-DW_PREC-537.1 Full List	PFAS-1633_DOD5_1633-Std List	8260B - (MOD) Super Volatiles List	Total Number of containers	Special Instructions/Note: x = testing comes from another container.
			Preservation Code:				N	N	N	N	A	Z	Y	N	A		
(1) BWS2253-J1-AQ	10/18/23	1100	G	Water	N		4	4			4	3	3	2	3	23	
(2) BWS2253-J1-TB 9/27/23	~~10/18/23~~		G	Water	N						2				2	4	
~~BWS2253-J1-FB~~	~~10/18/23~~		G	Water								1	1			2	

Subcontract Notes:
625 PAH - Physis
8015 TPH D+M - EMAX
8015 Gas - EMAX
8260B - EEA POM
PFAS 537.1 & 533 - EEA POM
PFAS 1633 - EEA SAC
Bill and Report to EEA - Pamona

Possible Hazard Identification
X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client X Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX PRIORITY OVERNIGHT		
Relinquished by: Eva Ka Kn	Date/Time: 10/18/23 1330	Company: INTERA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/19/23 945	Company: EMAX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.4/1.2 CF = -0.2

SAMPLE RECEIPT FORM 1

EMAX LABORATORIES, INC.

Type of Delivery	Airbill / Tracking Number	ECN 23J182
☑ Fedex ☐ UPS ☐ GSO ☐ Others	785240215072	Recipient Nandeen Nacana
☐ EMAX Courier ☐ Client Delivery		Date 10/19/23 Time 945

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: no initial/dates on corrections.

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☐ Intact	☐ Damaged		
Packaging correction factor: -0.2	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 1.4/1.2 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C
Thermometer:	*A - S/N 221852768*	*B - S/N 229925379*	(C) *S/N 230044897*	*D - S/N 210700237*	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note:

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
2	9,10	D6		R8 ↓ R4
2	9,10	D3	ID: TRAVEL BLANKS BW62253 J1 AQ	
2	9,10	D14		

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? ☐ YES ☐ NO

LEGEND:

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
(D3)	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -{improper} [leaking] [broken]
(D6)	Date/Time is not indicated in COC/label
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
(D14)	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	_____
D23	_____
D24	_____

☐ Continue to next page.

Code	Description-Sample Management
R1	Proceed as indicated in ☐ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserve as necessary
R8	See Revised COC
R9	
R10	
R11	
R12	

REVIEWS:

Sample Labeling: Nandeen Nacana — Date 10/19/23 10/19/23

SRF — Date 10/19/23

PM — Date 10/20/23


ORIGIN ID:HNLA (858) 205-0730
INTERA INC
9600 GREAT HILLS TRL STE 300W
#BWSHI_C002 TASK 3.5
AUSTIN, TX 78759
UNITED STATES US
SHIP DATE: 18OCT23
ACTWGT: 40.40 LB
CAD: 6994243/SSFE2441
DIMS: 14x20x14 IN
BILL THIRD PARTY
TO RICHARD M.BEAUVIL
EMAX LABORATORIES INC
3051 FUJITA STREET
TORRANCE CA 90505
(310) 618-8889
INV:
PO:
REF:
DEPT:
FedEx
Express
TRK# 0201 7852 4021 5072
THU - 19 OCT 10:30A
PRIORITY OVERNIGHT
AHS
90505
CA-US LAX
WZ HHRA

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-67915

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 23J182

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-67915

SDG : 23J182

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

A total of two(2) water samples were received on 10/19/23 to be analyzed for Total Petroleum Hydrocarbons by Purge And Trap in accordance with Method 5030B/8015B and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. VGH7J05B - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of LCS/LCD was analyzed. VGH7J05L/VGH7J05C were within LCS limits. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Gasoline was within MS QC limits in J167-01M/J167-01S. Refer to Matrix QC summary form for details.

Surrogate
Surrogate was added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : EUROFINS EATON ANALYTICAL
Project : 380-67915

SDG NO. : 23J182
Instrument ID : H7

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	VGH7J05B	1	NA	10/19/2315:46	10/19/2315:46	AJ19005A	AJ19004A	23VGH7J05	Method Blank
LCS1W	VGH7J05L	1	NA	10/19/2316:27	10/19/2316:27	AJ19006A	AJ19004A	23VGH7J05	Lab Control Sample (LCS)
LCD1W	VGH7J05C	1	NA	10/19/2317:07	10/19/2317:07	AJ19007A	AJ19004A	23VGH7J05	LCS Duplicate
380-67915-1	J182-01	1	NA	10/19/2321:06	10/19/2321:06	AJ19013A	AJ19004A	23VGH7J05	Field Sample
380-67915-2	J182-02	1	NA	10/19/2321:45	10/19/2321:45	AJ19014A	AJ19004A	23VGH7J05	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/18/23 11:00
Project	: 380-67915	Date Received:	10/19/23
Batch No.	: 23J182	Date Extracted:	10/19/23 21:06
Sample ID	: 380-67915-1	Date Analyzed:	10/19/23 21:06
Lab Samp ID:	J182-01	Dilution Factor:	1
Lab File ID:	AJ19013A	Matrix:	WATER
Ext Btch ID:	23VGH7J05	% Moisture:	NA
Calib. Ref.:	AJ19004A	Instrument ID:	H7

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0353	0.0400	88	60-140

Notes:
Parameter H-C Range
Gasoline C6-C10
Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/18/23 11:00
Project	: 380-67915	Date Received:	10/19/23
Batch No.	: 23J182	Date Extracted:	10/19/23 21:45
Sample ID	: 380-67915-2	Date Analyzed:	10/19/23 21:45
Lab Samp ID:	J182-02	Dilution Factor:	1
Lab File ID:	AJ19014A	Matrix:	WATER
Ext Btch ID:	23VGH7J05	% Moisture:	NA
Calib. Ref.:	AJ19004A	Instrument ID:	H7

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GASOLINE	ND	0.020	0.010

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromofluorobenzene	0.0365	0.0400	91	60-140

Notes:
Parameter H-C Range
Gasoline C6-C10
Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

QC SUMMARIES

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/19/23 15:46
Project	: 380-67915	Date Received:	10/19/23
Batch No.	: 23J182	Date Extracted:	10/19/23 15:46
Sample ID	: MBLK1W	Date Analyzed:	10/19/23 15:46
Lab Samp ID:	VGH7J05B	Dilution Factor:	1
Lab File ID:	AJ19005A	Matrix:	WATER
Ext Btch ID:	23VGH7J05	% Moisture:	NA
Calib. Ref.:	AJ19004A	Instrument ID:	H7

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)	
GASOLINE	ND	0.020	0.010	
SURROGATE PARAMETERS	**RESULT**	**SPK_AMT**	**%RECOVERY**	**QC LIMIT**
Bromofluorobenzene	0.0356	0.0400	89	60-140

Notes:
Parameter H-C Range
Gasoline C6-C10
Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.
Sample Amount : 5ml Final Volume : 5ml
Prepared by : SCerva Analyzed by : SCerva

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-67915
BATCH NO. : 23J182
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VGH7J05B	VGH7J05L	VGH7J05C
LAB FILE ID	: AJ19005A	AJ19006A	AJ19007A
DATE PREPARED	: 10/19/23 15:46	10/19/23 16:27	10/19/23 17:07
DATE ANALYZED	: 10/19/23 15:46	10/19/23 16:27	10/19/23 17:07
PREP BATCH	: 23VGH7J05	23VGH7J05	23VGH7J05
CALIBRATION REF:	AJ19004A	AJ19004A	AJ19004A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.425	85	0.500	0.444	89	4	60-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	SpikeAmt (mg/L)	LCDResult (mg/L)	LCDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0403	101	0.0400	0.0422	106	70-130

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-67915
BATCH NO. : 23J167
METHOD : 5030B/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 380-67917-1	380-67917-1MS	380-67917-1MSD
LAB SAMPLE ID	: J167-01	J167-01M	J167-01S
LAB FILE ID	: AJ19008A	AJ19009A	AJ19010A
DATE PREPARED	: 10/19/23 17:48	10/19/23 18:27	10/19/23 19:07
DATE ANALYZED	: 10/19/23 17:48	10/19/23 18:27	10/19/23 19:07
PREP BATCH	: 23VGH7J05	23VGH7J05	23VGH7J05
CALIBRATION REF:	AJ19004A	AJ19004A	AJ19004A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Gasoline	ND	0.500	0.431	86	0.500	0.518	104	18	50-130	30

SURROGATE PARAMETER	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromofluorobenzene	0.0400	0.0429	107	0.0400	0.0473	118	60-140

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

LABORATORY REPORT FOR

EUROFINS EATON ANALYTICAL

380-67915

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 23J182

CASE NARRATIVE

Client : EUROFINS EATON ANALYTICAL

Project: 380-67915

SDG : 23J182

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

One(1) water sample was received on 10/19/23 to be analyzed for Total Petroleum Hydrocarbons by Extraction in accordance with Method 3520C/8015B and project specific requirements.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried out on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details. MRL was analyzed as required by the project. Refer to MRL summary form for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, one(1) method blank was analyzed. DSJ024WB - result was compliant to project requirement. Refer to sample result summary form for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) LCS was analyzed. Percent recovery for Diesel was within LCS QC limits in DSJ024WL. Refer to LCS summary form for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. Diesel was within MS QC limits in 23J167-01M/23J167-01S. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. All surrogate recoveries were within QC limits. Refer to sample result summary forms for details.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : EUROFINS EATON ANALYTICAL
Project : 380-67915

SDG NO. : 23J182
Instrument ID : D5

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	DSJ024WB	1	NA	10/23/2313:28	10/19/2315:00	LJ23010A	LJ23003A	23DSJ024W	Method Blank
LCS1W	DSJ024WL	1	NA	10/23/2313:47	10/19/2315:00	LJ23011A	LJ23003A	23DSJ024W	Lab Control Sample (LCS)
380-67915-1	J182-01	1	NA	10/23/2318:47	10/19/2315:00	LJ23026A	LJ23003A	23DSJ024W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/18/23 11:00
Project	: 380-67915	Date Received:	10/19/23
Batch No.	: 23J182	Date Extracted:	10/19/23 15:00
Sample ID	: 380-67915-1	Date Analyzed:	10/23/23 18:47
Lab Samp ID:	23J182-01	Dilution Factor:	1
Lab File ID:	LJ23026A	Matrix:	WATER
Ext Btch ID:	23DSJ024W	% Moisture:	NA
Calib. Ref.:	LJ23003A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.030	0.015
Motor Oil	ND	0.059	0.030

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.552	0.590	93	60-130
Hexacosane	0.138	0.148	94	60-130

Notes:

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 850ml	Final Volume	: 5ml
Prepared by	: RGalan	Analyzed by	: SDeeso

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: EUROFINS EATON ANALYTICAL	Date Collected:	10/19/23 15:00
Project	: 380-67915	Date Received:	10/19/23
Batch No.	: 23J182	Date Extracted:	10/19/23 15:00
Sample ID	: MBLK1W	Date Analyzed:	10/23/23 13:28
Lab Samp ID:	DSJ024WB	Dilution Factor:	1
Lab File ID:	LJ23010A	Matrix:	WATER
Ext Btch ID:	23DSJ024W	% Moisture:	NA
Calib. Ref.:	LJ23003A	Instrument ID:	D5

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Diesel	ND	0.025	0.012
Motor Oil	ND	0.050	0.025

SURROGATE PARAMETERS	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
Bromobenzene	0.341	0.500	68	60-130
Hexacosane	0.108	0.125	86	60-130

Notes:

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

Reported ND at RL quantitated per pattern recognition.

Detection limits are reported relative to sample result significant figures.

Sample Amount	: 1000ml	Final Volume	: 5ml
Prepared by	: RGalan	Analyzed by	: SDeeso

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-67915
BATCH NO. : 23J182
METHOD : 3520C/8015B

MATRIX	: WATER	% MOISTURE:NA
DILUTION FACTOR:	1	1
SAMPLE ID	: MBLK1W	LCS1W
LAB SAMPLE ID	: DSJ024WB	DSJ024WL
LAB FILE ID	: LJ23010A	LJ23011A
DATE PREPARED	: 10/19/23 15:00	10/19/23 15:00
DATE ANALYZED	: 10/23/23 13:28	10/23/23 13:47
PREP BATCH	: 23DSJ024W	23DSJ024W
CALIBRATION REF:	LJ23003A	LJ23003A

ACCESSION:

PARAMETERS	MBResult (mg/L)	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Diesel	ND	2.50	2.10	84	50-130

SURROGATE PARAMETERS	SpikeAmt (mg/L)	LCSResult (mg/L)	LCSRec (%)	QCLimit (%)
Bromobenzene	0.500	0.349	70	60-130
Hexacosane	0.125	0.111	89	60-130

MB: Method Blank sample LCS: Lab Control Sample

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : EUROFINS EATON ANALYTICAL
PROJECT : 380-67915
BATCH NO. : 23J167
METHOD : 3520C/8015B

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: 380-67917-1	380-67917-1MS	380-67917-1MSD
LAB SAMPLE ID	: 23J167-01	23J167-01M	23J167-01S
LAB FILE ID	: LJ23018A	LJ23027A	LJ23020A
DATE PREPARED	: 10/19/23 15:00	10/19/23 15:00	10/19/23 15:00
DATE ANALYZED	: 10/23/23 16:18	10/23/23 19:06	10/23/23 16:55
PREP BATCH	: 23DSJ024W	23DSJ024W	23DSJ024W
CALIBRATION REF:	LJ23003A	LJ23003A	LJ23003A

ACCESSION:

PARAMETERS	PSResult (mg/L)	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
Diesel	ND	2.55	2.19	86	2.70	2.35	87	7	50-130	30

SURROGATE PARAMETERS	SpikeAmt (mg/L)	MSResult (mg/L)	MSRec (%)	SpikeAmt (mg/L)	MSDResult (mg/L)	MSDRec (%)	QCLimit (%)
Bromobenzene	0.510	0.306	60	0.540	0.430	80	60-130
Hexacosane	0.127	0.125	98	0.135	0.134	99	60-130

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

Pomona, CA
941 Corporate Center Drive
Pomona, CA 91768

Chain of Custody Record

eurofins Environment Testing America

23J182

Client Information	Sampler: E. Kakone	Lab PM: Arada, Rachelle	Carrier Tracking No(s): FEDEX	COC No:
Client Contact: Mr. Erwin Kawata	Phone: (555) 205-0730	E-Mail: Rachelle.Arada@et.eurofinsus.com	State of Origin: HAWAII	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street	Due Date Requested:			
City: Honolulu	TAT Requested (days): STANDARD			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5066(Tel)	PO #: C20525101 exp 05312023			
Email: ekawata@hbws.org	WO #:			
Project Name: HRS-340E - RED-HILL - INTERA	Project #: 38002227			
Site: Site J	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - 625 - PAH Only - 1 TIC's	SUBCONTRACT - TPH 8015 Diesel and Motor Oil	SUBCONTRACT - TPH 8015 Jet Fuel 5	SUBCONTRACT - TPH 8015 Jet Fuel 8	SUBCONTRACT - 8015 Gas	PFAS 533 - All Analytes	PFAS 537.1 DW_PREC 537.1 Full List	PFAS 1633_DOD5_1633 Std List	8260B - (MOD) Super Volatiles List	Total Number of containers
				Preservation Code:		X	X	N	N	N	N	A	Z	Y	N	A	X
(1)	BWS2253-J1-AQ	10/18/23	1100	G	Water	N		4	4			4	3	3	2	3	23
(2)	BWS2253-J1-TB	9/27/23 ~~10/18/23~~		G	Water	N						2				2	4
	~~BWS2253-J1-FB~~	~~10/18/23~~		G	Water								1	1			2

380-67915 COC

Special Instructions/Note:
x = testing comes from another container.

Subcontract Notes:
625 PAH - Physis
8015 TPH D+M - EMAX
8015 Gas - EMAX
8260B - EEA POM
PFAS 537.1 & 533 - EEA POM
PFAS 1633 - EEA SAC
Bill and Report to EEA - Pamona

Possible Hazard Identification
X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client X Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX PRIORITY OVERNIGHT			
[redacted]	Date/Time: 10/18/23 1330	Company: INTERA	Received by:	Date/Time:	Company
	Date/Time:	Company	Received by:	Date/Time: 10/19/23 945	Company: EMAX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.4/1.7 CF = -0.2

EMAX LABORATORIES, INC.

REFERENCE: EMAX-SM02 Rev. 12

SAMPLE RECEIPT FORM 1

12/12/2023

Type of Delivery	Airbill / Tracking Number	ECN 23J182
☑ Fedex ☐ UPS ☐ GSO ☐ Others	785240215072	Recipient Nandeen Nacana
☐ EMAX Courier ☐ Client Delivery		Date 10/19/23 Time 945

COC INSPECTION

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: no initial/dates on corrections.

PACKAGING INSPECTION

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☐ Intact	☐ Damaged		
Packaging correction factor: -0.2	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☑ Cooler 1 1.4/1.2 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	*A - S/N 221852768*	*B - S/N 221925379*	*(C) S/N 230044897*	*D - S/N 210700237*	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note:

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
2	9,10	D10		
2	9,10	D3	ID: TRAVEL BLANKS BW22253 J1 AQ	
2	9,10	D14		

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? ☐ YES ☐ NO

LEGEND:

☐ Continue to next page.

Code	Description- Sample Management
D1	Analysis is not indicated in _____
D2	Analysis mismatch COC vs label
(D3)	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
(D6)	Date/Time is not indicated in COC/label
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
(D14)	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in _____
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	_____
D23	_____
D24	_____

Code	Description-Sample Management
R1	Proceed as indicated in ☐ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	_____
R9	_____
R10	_____
R11	_____
R12	_____

REVIEWS:

Sample Labeling Nandeen Nacana — Date 10/19/23

SRF _____ Date _____

PM _____ Date 10/19/23

EMAX LABORATORIES, INC.

REFERENCE: EMAX-SM02 Rev. 12

SAMPLE RECEIPT FORM 2

12/12/2023

SAMPLES RECEIVED FOR ECN: 231182

pH paper Lot #: N/A

LAB SAMPLE ID (*)	LAB SAMPLE CONTAINER ID	COOLER#	CONTAINER TYPE								CHEMICAL PRESERVATIVE											Filtered	
			Jar	Amber	HDPE	Encore	Vial	Tube	Bag	Other	NONE	HCl (pH<2)	HNO_3 (pH<2)	H_2SO_4 (pH<2)	ZnAc+NaOH (pH>9)	ZnAc+NaOH (pH>12)	NaOH (pH>10)	NaOH (pH≥12)	$Na_2S_2O_3$	Methanol	NaHSO4	Other	Yes	No
1	* 1	1					/					/											
	* 2						/					/											
	* 3						/					/											
	* 4						/					/											
	* 5			/							/												
	* 6			/							/												
	* 7			/							/												
	* 8			/							/												
2	* 9	↓					/					/											
	* 10	1					/					/											
	* 1																						
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	* 9																						
	* 0																						

Nandeen Nacana
10/19/23

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-67915-1

Login Number: 67915
List Number: 1
Creator: Sanchez, Joseph G

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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	
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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	