

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H

JOB NUMBER

380-173049-1

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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Definitions/Glossary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Qualifiers

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: City & County of Honolulu
Project: INTERA - Red-Hill-Incident

Job ID: 380-173049-1

Job ID: 380-173049-1

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Job Narrative 380-173049-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/24/2025 10:00 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 2.9°C.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-633039. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-631607. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-631607. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-173049-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (C10-C24)	81		25	ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	61		25	ug/L	1		8015B	Total/NA
C8-C18	69		25	ug/L	1		8015B	Total/NA

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-173049-2

No Detections.

Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-173049-1

Date Collected: 09/23/25 11:15

Matrix: Water

Date Received: 09/24/25 10:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.0		2.0	ug/L			09/30/25 14:50	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			09/30/25 14:50	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ug/L			09/30/25 14:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<10		10	ug/L			09/30/25 14:50	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			09/30/25 14:50	1
1,1-Dichloroethane	<1.0		1.0	ug/L			09/30/25 14:50	1
1,1-Dichloroethene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,1-Dichloropropene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,2,3-Trichlorobenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,2,3-Trichloropropane	<5.0		5.0	ug/L			09/30/25 14:50	1
1,2,4-Trichlorobenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,2,4-Trimethylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,2-Dibromo-3-Chloropropane	<10		10	ug/L			09/30/25 14:50	1
1,2-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,2-Dichloroethane	<0.50		0.50	ug/L			09/30/25 14:50	1
1,2-Dichloropropane	<1.0		1.0	ug/L			09/30/25 14:50	1
1,3,5-Trimethylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,3-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
1,3-Dichloropropane	<1.0		1.0	ug/L			09/30/25 14:50	1
1,4-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
2,2-Dichloropropane	<1.0		1.0	ug/L			09/30/25 14:50	1
2-Butanone	<10		10	ug/L			09/30/25 14:50	1
2-Chlorotoluene	<1.0		1.0	ug/L			09/30/25 14:50	1
2-Hexanone	<10		10	ug/L			09/30/25 14:50	1
4-Chlorotoluene	<1.0		1.0	ug/L			09/30/25 14:50	1
Acetone	<10		10	ug/L			09/30/25 14:50	1
Benzene	<0.50		0.50	ug/L			09/30/25 14:50	1
Bromobenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
Bromochloromethane	<2.0		2.0	ug/L			09/30/25 14:50	1
Bromodichloromethane	<1.0		1.0	ug/L			09/30/25 14:50	1
Bromoform	<5.0		5.0	ug/L			09/30/25 14:50	1
Bromomethane	<10		10	ug/L			09/30/25 14:50	1
Carbon disulfide	<10		10	ug/L			09/30/25 14:50	1
Carbon tetrachloride	<0.50		0.50	ug/L			09/30/25 14:50	1
Chlorobenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
Chloroethane	<5.0		5.0	ug/L			09/30/25 14:50	1
Chloroform	<1.0		1.0	ug/L			09/30/25 14:50	1
Chloromethane	<10		10	ug/L			09/30/25 14:50	1
cis-1,2-Dichloroethene	<1.0		1.0	ug/L			09/30/25 14:50	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			09/30/25 14:50	1
Dibromochloromethane	<2.0		2.0	ug/L			09/30/25 14:50	1
Dibromomethane	<1.0		1.0	ug/L			09/30/25 14:50	1
Dichlorodifluoromethane	<5.0		5.0	ug/L			09/30/25 14:50	1
Diethyl ether	<10		10	ug/L			09/30/25 14:50	1
Di-isopropyl ether (DIPE)	<2.0		2.0	ug/L			09/30/25 14:50	1
Ethanol	<100		100	ug/L			09/30/25 14:50	1
Ethylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
Ethylene Dibromide	<1.0		1.0	ug/L			09/30/25 14:50	1
Ethyl-t-butyl ether (ETBE)	<2.0		2.0	ug/L			09/30/25 14:50	1

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Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-173049-1

Date Collected: 09/23/25 11:15

Matrix: Water

Date Received: 09/24/25 10:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloro-1,3-butadiene	<10		10	ug/L			09/30/25 14:50	1
Hexane	<5.0		5.0	ug/L			09/30/25 14:50	1
Isobutyl alcohol	<75		75	ug/L			09/30/25 14:50	1
Isopropanol	<75		75	ug/L			09/30/25 14:50	1
Isopropylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
m,p-Xylene	<2.0		2.0	ug/L			09/30/25 14:50	1
Methylene Chloride	<10		10	ug/L			09/30/25 14:50	1
Methyl-t-Butyl Ether (MTBE)	<1.0		1.0	ug/L			09/30/25 14:50	1
MIBK	<10		10	ug/L			09/30/25 14:50	1
Naphthalene	<10		10	ug/L			09/30/25 14:50	1
n-Butylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
N-Propylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
o-Xylene	<1.0		1.0	ug/L			09/30/25 14:50	1
p-Isopropyltoluene	<1.0		1.0	ug/L			09/30/25 14:50	1
sec-Butylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
Styrene	<1.0		1.0	ug/L			09/30/25 14:50	1
tert-Amyl alcohol	<50		50	ug/L			09/30/25 14:50	1
Tert-amyl-methyl ether (TAME)	<2.0		2.0	ug/L			09/30/25 14:50	1
tert-Butyl alcohol (TBA)	<10		10	ug/L			09/30/25 14:50	1
tert-Butylbenzene	<1.0		1.0	ug/L			09/30/25 14:50	1
Tetrachloroethene	<1.0		1.0	ug/L			09/30/25 14:50	1
Toluene	<1.0		1.0	ug/L			09/30/25 14:50	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			09/30/25 14:50	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			09/30/25 14:50	1
Trichloroethene	<1.0		1.0	ug/L			09/30/25 14:50	1
Trichlorofluoromethane	<10		10	ug/L			09/30/25 14:50	1
Vinyl acetate	<10		10	ug/L			09/30/25 14:50	1
Vinyl chloride	<0.50		0.50	ug/L			09/30/25 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		09/30/25 14:50	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/30/25 14:50	1
Dibromofluoromethane (Surr)	97		80 - 120		09/30/25 14:50	1
Toluene-d8 (Surr)	107		80 - 120		09/30/25 14:50	1

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Acenaphthene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Acenaphthylene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Anthracene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Chrysene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Dibenz[a,h]anthracene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Fluoranthene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-173049-1

Date Collected: 09/23/25 11:15

Matrix: Water

Date Received: 09/24/25 10:00

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Naphthalene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Phenanthrene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1
Pyrene	<0.19		0.19	ug/L		09/26/25 13:36	10/06/25 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		28 - 127	09/26/25 13:36	10/06/25 16:14	1
2-Fluorobiphenyl (Surr)	69		31 - 120	09/26/25 13:36	10/06/25 16:14	1
2-Fluorophenol (Surr)	45		17 - 120	09/26/25 13:36	10/06/25 16:14	1
Nitrobenzene-d5 (Surr)	75		27 - 120	09/26/25 13:36	10/06/25 16:14	1
Phenol-d6 (Surr)	30		10 - 120	09/26/25 13:36	10/06/25 16:14	1
p-Terphenyl-d14 (Surr)	80		45 - 120	09/26/25 13:36	10/06/25 16:14	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentane-1,2-diol	14	T J N	ug/L		2.74	1000194-24-0	09/26/25 13:36	10/09/25 15:02	1
Propanoic acid, 2-methyl-, 3-methylbutyl ester	16	T J N	ug/L		2.82	2050-01-3	09/26/25 13:36	10/09/25 15:02	1
Cyclohexane, 1,4-dimethyl-, trans-	18	T J N	ug/L		2.93	2207-04-7	09/26/25 13:36	10/09/25 15:02	1
Butylated Hydroxytoluene	9.3	T J N	ug/L		6.82	128-37-0	09/26/25 13:36	10/09/25 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		33 - 139	09/26/25 13:36	10/09/25 15:02	1
2-Fluorobiphenyl (Surr)	78		33 - 126	09/26/25 13:36	10/09/25 15:02	1
2-Fluorophenol (Surr)	48		12 - 120	09/26/25 13:36	10/09/25 15:02	1
Nitrobenzene-d5 (Surr)	96		36 - 120	09/26/25 13:36	10/09/25 15:02	1
Phenol-d6 (Surr)	31		10 - 120	09/26/25 13:36	10/09/25 15:02	1
p-Terphenyl-d14 (Surr)	84		47 - 131	09/26/25 13:36	10/09/25 15:02	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			10/05/25 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134		10/05/25 20:31	1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	81		25	ug/L		09/29/25 09:55	10/05/25 02:59	1
Motor Oil Range Organics [C24-C36]	61		25	ug/L		09/29/25 09:55	10/05/25 02:59	1
C8-C18	69		25	ug/L		09/29/25 09:55	10/05/25 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		60 - 130	09/29/25 09:55	10/05/25 02:59	1

Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-173049-2

Date Collected: 09/23/25 11:15

Matrix: Water

Date Received: 09/24/25 10:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.0		2.0	ug/L			09/30/25 11:59	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			09/30/25 11:59	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ug/L			09/30/25 11:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<10		10	ug/L			09/30/25 11:59	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			09/30/25 11:59	1
1,1-Dichloroethane	<1.0		1.0	ug/L			09/30/25 11:59	1
1,1-Dichloroethene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,1-Dichloropropene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,2,3-Trichlorobenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,2,3-Trichloropropane	<5.0		5.0	ug/L			09/30/25 11:59	1
1,2,4-Trichlorobenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,2,4-Trimethylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,2-Dibromo-3-Chloropropane	<10		10	ug/L			09/30/25 11:59	1
1,2-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,2-Dichloroethane	<0.50		0.50	ug/L			09/30/25 11:59	1
1,2-Dichloropropane	<1.0		1.0	ug/L			09/30/25 11:59	1
1,3,5-Trimethylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,3-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
1,3-Dichloropropane	<1.0		1.0	ug/L			09/30/25 11:59	1
1,4-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
2,2-Dichloropropane	<1.0		1.0	ug/L			09/30/25 11:59	1
2-Butanone	<10		10	ug/L			09/30/25 11:59	1
2-Chlorotoluene	<1.0		1.0	ug/L			09/30/25 11:59	1
2-Hexanone	<10		10	ug/L			09/30/25 11:59	1
4-Chlorotoluene	<1.0		1.0	ug/L			09/30/25 11:59	1
Acetone	<10		10	ug/L			09/30/25 11:59	1
Benzene	<0.50		0.50	ug/L			09/30/25 11:59	1
Bromobenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
Bromochloromethane	<2.0		2.0	ug/L			09/30/25 11:59	1
Bromodichloromethane	<1.0		1.0	ug/L			09/30/25 11:59	1
Bromoform	<5.0		5.0	ug/L			09/30/25 11:59	1
Bromomethane	<10		10	ug/L			09/30/25 11:59	1
Carbon disulfide	<10		10	ug/L			09/30/25 11:59	1
Carbon tetrachloride	<0.50		0.50	ug/L			09/30/25 11:59	1
Chlorobenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
Chloroethane	<5.0		5.0	ug/L			09/30/25 11:59	1
Chloroform	<1.0		1.0	ug/L			09/30/25 11:59	1
Chloromethane	<10		10	ug/L			09/30/25 11:59	1
cis-1,2-Dichloroethene	<1.0		1.0	ug/L			09/30/25 11:59	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			09/30/25 11:59	1
Dibromochloromethane	<2.0		2.0	ug/L			09/30/25 11:59	1
Dibromomethane	<1.0		1.0	ug/L			09/30/25 11:59	1
Dichlorodifluoromethane	<5.0		5.0	ug/L			09/30/25 11:59	1
Diethyl ether	<10		10	ug/L			09/30/25 11:59	1
Di-isopropyl ether (DIPE)	<2.0		2.0	ug/L			09/30/25 11:59	1
Ethanol	<100		100	ug/L			09/30/25 11:59	1
Ethylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
Ethylene Dibromide	<1.0		1.0	ug/L			09/30/25 11:59	1
Ethyl-t-butyl ether (ETBE)	<2.0		2.0	ug/L			09/30/25 11:59	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-173049-2

Date Collected: 09/23/25 11:15

Matrix: Water

Date Received: 09/24/25 10:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloro-1,3-butadiene	<10		10	ug/L			09/30/25 11:59	1
Hexane	<5.0		5.0	ug/L			09/30/25 11:59	1
Isobutyl alcohol	<75		75	ug/L			09/30/25 11:59	1
Isopropanol	<75		75	ug/L			09/30/25 11:59	1
Isopropylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
m,p-Xylene	<2.0		2.0	ug/L			09/30/25 11:59	1
Methylene Chloride	<10		10	ug/L			09/30/25 11:59	1
Methyl-t-Butyl Ether (MTBE)	<1.0		1.0	ug/L			09/30/25 11:59	1
MIBK	<10		10	ug/L			09/30/25 11:59	1
Naphthalene	<10		10	ug/L			09/30/25 11:59	1
n-Butylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
N-Propylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
o-Xylene	<1.0		1.0	ug/L			09/30/25 11:59	1
p-Isopropyltoluene	<1.0		1.0	ug/L			09/30/25 11:59	1
sec-Butylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
Styrene	<1.0		1.0	ug/L			09/30/25 11:59	1
tert-Amyl alcohol	<50		50	ug/L			09/30/25 11:59	1
Tert-amyl-methyl ether (TAME)	<2.0		2.0	ug/L			09/30/25 11:59	1
tert-Butyl alcohol (TBA)	<10		10	ug/L			09/30/25 11:59	1
tert-Butylbenzene	<1.0		1.0	ug/L			09/30/25 11:59	1
Tetrachloroethene	<1.0		1.0	ug/L			09/30/25 11:59	1
Toluene	<1.0		1.0	ug/L			09/30/25 11:59	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			09/30/25 11:59	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			09/30/25 11:59	1
Trichloroethene	<1.0		1.0	ug/L			09/30/25 11:59	1
Trichlorofluoromethane	<10		10	ug/L			09/30/25 11:59	1
Vinyl acetate	<10		10	ug/L			09/30/25 11:59	1
Vinyl chloride	<0.50		0.50	ug/L			09/30/25 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		09/30/25 11:59	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/30/25 11:59	1
Dibromofluoromethane (Surr)	96		80 - 120		09/30/25 11:59	1
Toluene-d8 (Surr)	107		80 - 120		09/30/25 11:59	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			10/06/25 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134		10/06/25 00:12	1

Action Limit Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-173049-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL Limit	HI Org Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	<1.0		ug/L	200	200.0	1.0	8260B	Total/NA
1,1,2-Trichloroethane	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
1,1-Dichloroethene	<1.0		ug/L	7	7.000	1.0	8260B	Total/NA
1,2,3-Trichloropropane	<5.0		ug/L		0.6000	5.0	8260B	Total/NA
1,2,4-Trichlorobenzene	<1.0		ug/L	70	70.00	1.0	8260B	Total/NA
1,2-Dibromo-3-Chloropropane	<10		ug/L	0.2		10	8260B	Total/NA
1,2-Dichlorobenzene	<1.0		ug/L	600	600.0	1.0	8260B	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5	5.000	0.50	8260B	Total/NA
1,2-Dichloropropane	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
1,4-Dichlorobenzene	<1.0		ug/L	75	75.000	1.0	8260B	Total/NA
Benzene	<0.50		ug/L	5	5.000	0.50	8260B	Total/NA
Bromodichloromethane	<1.0		ug/L	80		1.0	8260B	Total/NA
Bromoform	<5.0		ug/L	80		5.0	8260B	Total/NA
Carbon tetrachloride	<0.50		ug/L	5	5.000	0.50	8260B	Total/NA
Chlorobenzene	<1.0		ug/L	100	100.0	1.0	8260B	Total/NA
Chloroform	<1.0		ug/L	80		1.0	8260B	Total/NA
cis-1,2-Dichloroethene	<1.0		ug/L	70	70.00	1.0	8260B	Total/NA
Dibromochloromethane	<2.0		ug/L	80		2.0	8260B	Total/NA
Ethylbenzene	<1.0		ug/L	700	700.0	1.0	8260B	Total/NA
Ethylene Dibromide	<1.0		ug/L	0.05		1.0	8260B	Total/NA
Methylene Chloride	<10		ug/L	5	5.000	10	8260B	Total/NA
Styrene	<1.0		ug/L	100	100.0	1.0	8260B	Total/NA
Tetrachloroethene	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
Toluene	<1.0		ug/L	1000	1000	1.0	8260B	Total/NA
trans-1,2-Dichloroethene	<1.0		ug/L	100	100.0	1.0	8260B	Total/NA
Trichloroethene	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
Vinyl chloride	<0.50		ug/L	2	2.000	0.50	8260B	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2		0.19	625.1 SIM	Total/NA

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-173049-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL Limit	HI Org Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	<1.0		ug/L	200	200.0	1.0	8260B	Total/NA
1,1,2-Trichloroethane	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
1,1-Dichloroethene	<1.0		ug/L	7	7.000	1.0	8260B	Total/NA
1,2,3-Trichloropropane	<5.0		ug/L		0.6000	5.0	8260B	Total/NA
1,2,4-Trichlorobenzene	<1.0		ug/L	70	70.00	1.0	8260B	Total/NA
1,2-Dibromo-3-Chloropropane	<10		ug/L	0.2		10	8260B	Total/NA
1,2-Dichlorobenzene	<1.0		ug/L	600	600.0	1.0	8260B	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5	5.000	0.50	8260B	Total/NA
1,2-Dichloropropane	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
1,4-Dichlorobenzene	<1.0		ug/L	75	75.000	1.0	8260B	Total/NA
Benzene	<0.50		ug/L	5	5.000	0.50	8260B	Total/NA

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Action Limit Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-TB (Continued)

Lab Sample ID: 380-173049-2

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	HI Org	RL	Method	Prep Type
				Limit	Limit			
Bromodichloromethane	<1.0		ug/L	80		1.0	8260B	Total/NA
Bromoform	<5.0		ug/L	80		5.0	8260B	Total/NA
Carbon tetrachloride	<0.50		ug/L	5	5.000	0.50	8260B	Total/NA
Chlorobenzene	<1.0		ug/L	100	100.0	1.0	8260B	Total/NA
Chloroform	<1.0		ug/L	80		1.0	8260B	Total/NA
cis-1,2-Dichloroethene	<1.0		ug/L	70	70.00	1.0	8260B	Total/NA
Dibromochloromethane	<2.0		ug/L	80		2.0	8260B	Total/NA
Ethylbenzene	<1.0		ug/L	700	700.0	1.0	8260B	Total/NA
Ethylene Dibromide	<1.0		ug/L	0.05		1.0	8260B	Total/NA
Methylene Chloride	<10		ug/L	5	5.000	10	8260B	Total/NA
Styrene	<1.0		ug/L	100	100.0	1.0	8260B	Total/NA
Tetrachloroethene	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
Toluene	<1.0		ug/L	1000	1000	1.0	8260B	Total/NA
trans-1,2-Dichloroethene	<1.0		ug/L	100	100.0	1.0	8260B	Total/NA
Trichloroethene	<1.0		ug/L	5	5.000	1.0	8260B	Total/NA
Vinyl chloride	<0.50		ug/L	2	2.000	0.50	8260B	Total/NA

Surrogate Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
380-173049-1	BWS2253-H1-AQ	89	102	97	107
380-173049-2	BWS2253-H1-TB	89	102	96	107
LCS 570-633039/1003	Lab Control Sample	96	100	90	99
LCSD 570-633039/4	Lab Control Sample Dup	97	99	94	101
MB 570-633039/7	Method Blank	89	104	96	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-173049-1	BWS2253-H1-AQ	86	78	48	96	31	84
MB 570-631607/1-A	Method Blank	86	86	60	111	39	90

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-173049-1	BWS2253-H1-AQ	88	69	45	75	30	80
LCS 570-631607/2-A	Lab Control Sample	87	84	63	72	43	90
LCSD 570-631607/3-A	Lab Control Sample Dup	80	77	60	68	41	85
MB 570-631607/1-A	Method Blank	85	77	55	83	36	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-173049-1	BWS2253-H1-AQ	98
380-173049-2	BWS2253-H1-TB	95
380-173388-B-1 MS	Matrix Spike	101
380-173388-B-1 MSD	Matrix Spike Duplicate	100
LCS 570-635834/1009	Lab Control Sample	98
LCSD 570-635834/10	Lab Control Sample Dup	97
MB 570-635834/11	Method Blank	94
MRL 570-635834/1004	Lab Control Sample	97
Surrogate Legend		
BFB = 4-Bromofluorobenzene (Surr)		

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-173049-1	BWS2253-H1-AQ	93
380-173049-1 MS	BWS2253-H1-AQ	92
380-173049-1 MSD	BWS2253-H1-AQ	101
LCS 570-632540/2-A	Lab Control Sample	92
LCSD 570-632540/3-A	Lab Control Sample Dup	103
MB 570-632540/1-A	Method Blank	92
MRL 570-632540/4-A	Lab Control Sample	84
MRL 570-632540/4-A	Lab Control Sample	92
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-633039/7

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.0		2.0	ug/L			09/30/25 08:48	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			09/30/25 08:48	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ug/L			09/30/25 08:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<10		10	ug/L			09/30/25 08:48	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			09/30/25 08:48	1
1,1-Dichloroethane	<1.0		1.0	ug/L			09/30/25 08:48	1
1,1-Dichloroethene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,1-Dichloropropene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,2,3-Trichlorobenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,2,3-Trichloropropane	<5.0		5.0	ug/L			09/30/25 08:48	1
1,2,4-Trichlorobenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,2,4-Trimethylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,2-Dibromo-3-Chloropropane	<10		10	ug/L			09/30/25 08:48	1
1,2-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,2-Dichloroethane	<0.50		0.50	ug/L			09/30/25 08:48	1
1,2-Dichloropropane	<1.0		1.0	ug/L			09/30/25 08:48	1
1,3,5-Trimethylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,3-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
1,3-Dichloropropane	<1.0		1.0	ug/L			09/30/25 08:48	1
1,4-Dichlorobenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
2,2-Dichloropropane	<1.0		1.0	ug/L			09/30/25 08:48	1
2-Butanone	<10		10	ug/L			09/30/25 08:48	1
2-Chlorotoluene	<1.0		1.0	ug/L			09/30/25 08:48	1
2-Hexanone	<10		10	ug/L			09/30/25 08:48	1
4-Chlorotoluene	<1.0		1.0	ug/L			09/30/25 08:48	1
Acetone	<10		10	ug/L			09/30/25 08:48	1
Benzene	<0.50		0.50	ug/L			09/30/25 08:48	1
Bromobenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
Bromochloromethane	<2.0		2.0	ug/L			09/30/25 08:48	1
Bromodichloromethane	<1.0		1.0	ug/L			09/30/25 08:48	1
Bromoform	<5.0		5.0	ug/L			09/30/25 08:48	1
Bromomethane	<10		10	ug/L			09/30/25 08:48	1
Carbon disulfide	<10		10	ug/L			09/30/25 08:48	1
Carbon tetrachloride	<0.50		0.50	ug/L			09/30/25 08:48	1
Chlorobenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
Chloroethane	<5.0		5.0	ug/L			09/30/25 08:48	1
Chloroform	<1.0		1.0	ug/L			09/30/25 08:48	1
Chloromethane	<10		10	ug/L			09/30/25 08:48	1
cis-1,2-Dichloroethene	<1.0		1.0	ug/L			09/30/25 08:48	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			09/30/25 08:48	1
Dibromochloromethane	<2.0		2.0	ug/L			09/30/25 08:48	1
Dibromomethane	<1.0		1.0	ug/L			09/30/25 08:48	1
Dichlorodifluoromethane	<5.0		5.0	ug/L			09/30/25 08:48	1
Diethyl ether	<10		10	ug/L			09/30/25 08:48	1
Di-isopropyl ether (DIPE)	<2.0		2.0	ug/L			09/30/25 08:48	1
Ethanol	<100		100	ug/L			09/30/25 08:48	1
Ethylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
Ethylene Dibromide	<1.0		1.0	ug/L			09/30/25 08:48	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-633039/7

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	<2.0		2.0	ug/L			09/30/25 08:48	1
Hexachloro-1,3-butadiene	<10		10	ug/L			09/30/25 08:48	1
Hexane	<5.0		5.0	ug/L			09/30/25 08:48	1
Isobutyl alcohol	<75		75	ug/L			09/30/25 08:48	1
Isopropanol	<75		75	ug/L			09/30/25 08:48	1
Isopropylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
m,p-Xylene	<2.0		2.0	ug/L			09/30/25 08:48	1
Methylene Chloride	<10		10	ug/L			09/30/25 08:48	1
Methyl-t-Butyl Ether (MTBE)	<1.0		1.0	ug/L			09/30/25 08:48	1
MIBK	<10		10	ug/L			09/30/25 08:48	1
Naphthalene	<10		10	ug/L			09/30/25 08:48	1
n-Butylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
N-Propylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
o-Xylene	<1.0		1.0	ug/L			09/30/25 08:48	1
p-Isopropyltoluene	<1.0		1.0	ug/L			09/30/25 08:48	1
sec-Butylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
Styrene	<1.0		1.0	ug/L			09/30/25 08:48	1
tert-Amyl alcohol	<50		50	ug/L			09/30/25 08:48	1
Tert-amyl-methyl ether (TAME)	<2.0		2.0	ug/L			09/30/25 08:48	1
tert-Butyl alcohol (TBA)	<10		10	ug/L			09/30/25 08:48	1
tert-Butylbenzene	<1.0		1.0	ug/L			09/30/25 08:48	1
Tetrachloroethene	<1.0		1.0	ug/L			09/30/25 08:48	1
Toluene	<1.0		1.0	ug/L			09/30/25 08:48	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			09/30/25 08:48	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			09/30/25 08:48	1
Trichloroethene	<1.0		1.0	ug/L			09/30/25 08:48	1
Trichlorofluoromethane	<10		10	ug/L			09/30/25 08:48	1
Vinyl acetate	<10		10	ug/L			09/30/25 08:48	1
Vinyl chloride	<0.50		0.50	ug/L			09/30/25 08:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		09/30/25 08:48	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/30/25 08:48	1
Dibromofluoromethane (Surr)	96		80 - 120		09/30/25 08:48	1
Toluene-d8 (Surr)	108		80 - 120		09/30/25 08:48	1

Lab Sample ID: LCS 570-633039/1003

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.0		ug/L		105	83 - 120
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	78 - 123
1,1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/L		95	72 - 130
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	82 - 120
1,1-Dichloroethane	20.0	20.6		ug/L		103	79 - 122
1,1-Dichloroethane	20.0	21.8		ug/L		109	74 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-633039/1003

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	20.0	20.6		ug/L		103	75 - 124
1,2,3-Trichlorobenzene	20.0	17.9		ug/L		90	71 - 126
1,2,3-Trichloropropane	20.0	19.4		ug/L		97	73 - 121
1,2,4-Trichlorobenzene	20.0	17.7		ug/L		88	70 - 130
1,2,4-Trimethylbenzene	20.0	18.4		ug/L		92	80 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.8		ug/L		94	64 - 127
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	78 - 122
1,2-Dichloroethane	20.0	20.0		ug/L		100	76 - 123
1,2-Dichloropropane	20.0	20.8		ug/L		104	82 - 120
1,3,5-Trimethylbenzene	20.0	19.0		ug/L		95	79 - 124
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	81 - 120
1,3-Dichloropropane	20.0	21.2		ug/L		106	82 - 120
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	78 - 121
2,2-Dichloropropane	20.0	19.6		ug/L		98	69 - 133
2-Butanone	20.0	22.6		ug/L		113	55 - 142
2-Chlorotoluene	20.0	20.0		ug/L		100	80 - 120
2-Hexanone	20.0	25.8		ug/L		129	54 - 138
4-Chlorotoluene	20.0	20.5		ug/L		102	80 - 121
Acetone	20.0	22.1		ug/L		111	50 - 157
Benzene	20.0	22.1		ug/L		110	80 - 120
Bromobenzene	20.0	21.1		ug/L		106	80 - 120
Bromochloromethane	20.0	18.8		ug/L		94	83 - 123
Bromodichloromethane	20.0	20.6		ug/L		103	83 - 120
Bromoform	20.0	21.0		ug/L		105	75 - 128
Bromomethane	20.0	22.6		ug/L		113	31 - 120
Carbon disulfide	20.0	19.8		ug/L		99	71 - 128
Carbon tetrachloride	20.0	19.5		ug/L		97	72 - 135
Chlorobenzene	20.0	20.8		ug/L		104	84 - 120
Chloroethane	20.0	22.1		ug/L		111	72 - 129
Chloroform	20.0	18.5		ug/L		93	79 - 120
Chloromethane	20.0	19.6		ug/L		98	36 - 148
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	81 - 120
cis-1,3-Dichloropropene	20.0	23.0		ug/L		115	76 - 125
Dibromochloromethane	20.0	20.4		ug/L		102	82 - 120
Dibromomethane	20.0	19.8		ug/L		99	85 - 120
Dichlorodifluoromethane	20.0	25.9		ug/L		129	52 - 147
Diethyl ether	20.0	20.9		ug/L		104	71 - 127
Di-isopropyl ether (DIPE)	20.0	25.1		ug/L		125	70 - 132
Ethanol	200	217		ug/L		108	48 - 163
Ethylbenzene	20.0	21.5		ug/L		108	81 - 120
Ethylene Dibromide	20.0	20.7		ug/L		103	81 - 120
Ethyl-t-butyl ether (ETBE)	20.0	23.0		ug/L		115	68 - 126
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 122
m,p-Xylene	40.0	42.7		ug/L		107	79 - 122
Methylene Chloride	20.0	18.3		ug/L		92	76 - 120
Methyl-t-Butyl Ether (MTBE)	20.0	21.7		ug/L		109	70 - 124
MIBK	20.0	22.9		ug/L		115	57 - 133
Naphthalene	20.0	15.9		ug/L		80	64 - 124
n-Butylbenzene	20.0	18.1		ug/L		90	78 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-633039/1003

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-Propylbenzene	20.0	20.5		ug/L		102	80 - 121
o-Xylene	20.0	20.8		ug/L		104	81 - 120
p-Isopropyltoluene	20.0	18.5		ug/L		92	81 - 124
sec-Butylbenzene	20.0	18.4		ug/L		92	80 - 123
Styrene	20.0	21.0		ug/L		105	82 - 120
tert-Amyl alcohol	100	111		ug/L		111	30 - 157
Tert-amyl-methyl ether (TAME)	20.0	22.6		ug/L		113	71 - 121
tert-Butyl alcohol (TBA)	100	108		ug/L		108	68 - 128
tert-Butylbenzene	20.0	19.1		ug/L		96	80 - 124
Tetrachloroethene	20.0	23.0		ug/L		115	78 - 126
Toluene	20.0	21.4		ug/L		107	82 - 120
trans-1,2-Dichloroethene	20.0	20.5		ug/L		102	79 - 122
trans-1,3-Dichloropropene	20.0	23.2		ug/L		116	73 - 127
Trichloroethene	20.0	20.4		ug/L		102	83 - 120
Trichlorofluoromethane	20.0	20.2		ug/L		101	74 - 135
Vinyl acetate	20.0	20.7		ug/L		104	56 - 135
Vinyl chloride	20.0	22.4		ug/L		112	68 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	90		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 570-633039/4

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	83 - 120	4	20
1,1,1-Trichloroethane	20.0	17.7		ug/L		89	78 - 123	5	20
1,1,2,2-Tetrachloroethane	20.0	18.4		ug/L		92	74 - 125	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/L		92	72 - 130	3	20
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	82 - 120	4	20
1,1-Dichloroethane	20.0	20.6		ug/L		103	79 - 122	0	20
1,1-Dichloroethene	20.0	21.7		ug/L		109	74 - 127	1	20
1,1-Dichloropropene	20.0	19.1		ug/L		96	75 - 124	7	20
1,2,3-Trichlorobenzene	20.0	17.8		ug/L		89	71 - 126	1	20
1,2,3-Trichloropropane	20.0	19.5		ug/L		97	73 - 121	1	20
1,2,4-Trichlorobenzene	20.0	17.5		ug/L		88	70 - 130	1	20
1,2,4-Trimethylbenzene	20.0	18.0		ug/L		90	80 - 125	3	20
1,2-Dibromo-3-Chloropropane	20.0	17.0		ug/L		85	64 - 127	10	20
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	78 - 122	1	20
1,2-Dichloroethane	20.0	20.0		ug/L		100	76 - 123	0	20
1,2-Dichloropropane	20.0	20.1		ug/L		101	82 - 120	3	20
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	79 - 124	2	20
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	81 - 120	3	20
1,3-Dichloropropane	20.0	20.1		ug/L		101	82 - 120	5	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-633039/4

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	78 - 121	1	20
2,2-Dichloropropane	20.0	18.5		ug/L		92	69 - 133	6	20
2-Butanone	20.0	20.8		ug/L		104	55 - 142	9	21
2-Chlorotoluene	20.0	19.7		ug/L		98	80 - 120	2	20
2-Hexanone	20.0	22.6		ug/L		113	54 - 138	13	21
4-Chlorotoluene	20.0	19.6		ug/L		98	80 - 121	4	20
Acetone	20.0	21.2		ug/L		106	50 - 157	4	26
Benzene	20.0	21.2		ug/L		106	80 - 120	4	20
Bromobenzene	20.0	20.5		ug/L		102	80 - 120	3	20
Bromochloromethane	20.0	19.2		ug/L		96	83 - 123	2	20
Bromodichloromethane	20.0	20.8		ug/L		104	83 - 120	1	20
Bromoform	20.0	19.8		ug/L		99	75 - 128	6	20
Bromomethane	20.0	19.9		ug/L		100	31 - 120	12	22
Carbon disulfide	20.0	20.0		ug/L		100	71 - 128	1	20
Carbon tetrachloride	20.0	18.9		ug/L		94	72 - 135	3	20
Chlorobenzene	20.0	19.8		ug/L		99	84 - 120	5	20
Chloroethane	20.0	22.8		ug/L		114	72 - 129	3	20
Chloroform	20.0	18.5		ug/L		93	79 - 120	0	20
Chloromethane	20.0	22.9		ug/L		114	36 - 148	15	20
cis-1,2-Dichloroethene	20.0	19.5		ug/L		97	81 - 120	1	20
cis-1,3-Dichloropropene	20.0	22.2		ug/L		111	76 - 125	4	20
Dibromochloromethane	20.0	19.6		ug/L		98	82 - 120	4	20
Dibromomethane	20.0	20.1		ug/L		100	85 - 120	1	20
Dichlorodifluoromethane	20.0	25.6		ug/L		128	52 - 147	1	20
Diethyl ether	20.0	21.4		ug/L		107	71 - 127	2	20
Di-isopropyl ether (DIPE)	20.0	23.2		ug/L		116	70 - 132	8	20
Ethanol	200	235		ug/L		118	48 - 163	8	30
Ethylbenzene	20.0	20.7		ug/L		103	81 - 120	4	20
Ethylene Dibromide	20.0	19.8		ug/L		99	81 - 120	4	20
Ethyl-t-butyl ether (ETBE)	20.0	21.8		ug/L		109	68 - 126	5	20
Isopropylbenzene	20.0	19.5		ug/L		97	80 - 122	6	20
m,p-Xylene	40.0	40.8		ug/L		102	79 - 122	5	20
Methylene Chloride	20.0	18.3		ug/L		91	76 - 120	0	20
Methyl-t-Butyl Ether (MTBE)	20.0	20.6		ug/L		103	70 - 124	5	20
MIBK	20.0	23.2		ug/L		116	57 - 133	1	20
Naphthalene	20.0	15.7		ug/L		78	64 - 124	1	20
n-Butylbenzene	20.0	17.2		ug/L		86	78 - 127	5	20
N-Propylbenzene	20.0	19.9		ug/L		99	80 - 121	3	20
o-Xylene	20.0	19.9		ug/L		100	81 - 120	4	20
p-Isopropyltoluene	20.0	17.6		ug/L		88	81 - 124	5	20
sec-Butylbenzene	20.0	17.5		ug/L		87	80 - 123	5	20
Styrene	20.0	20.0		ug/L		100	82 - 120	5	20
tert-Amyl alcohol	100	108		ug/L		108	30 - 157	2	30
Tert-amyl-methyl ether (TAME)	20.0	22.0		ug/L		110	71 - 121	3	20
tert-Butyl alcohol (TBA)	100	105		ug/L		105	68 - 128	3	20
tert-Butylbenzene	20.0	18.8		ug/L		94	80 - 124	2	20
Tetrachloroethene	20.0	21.1		ug/L		106	78 - 126	8	20
Toluene	20.0	21.0		ug/L		105	82 - 120	2	20
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	79 - 122	6	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-633039/4

Matrix: Water

Analysis Batch: 633039

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	20.0	22.5		ug/L		112	73 - 127	3	20
Trichloroethene	20.0	19.2		ug/L		96	83 - 120	6	20
Trichlorofluoromethane	20.0	20.0		ug/L		100	74 - 135	1	20
Vinyl acetate	20.0	18.8		ug/L		94	56 - 135	9	24
Vinyl chloride	20.0	21.7		ug/L		109	68 - 131	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-631607/1-A

Matrix: Water

Analysis Batch: 637854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 631607

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/26/25 13:36	10/09/25 10:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		33 - 139	09/26/25 13:36	10/09/25 10:34	1
2-Fluorobiphenyl (Surr)	86		33 - 126	09/26/25 13:36	10/09/25 10:34	1
2-Fluorophenol (Surr)	60		12 - 120	09/26/25 13:36	10/09/25 10:34	1
Nitrobenzene-d5 (Surr)	111		36 - 120	09/26/25 13:36	10/09/25 10:34	1
Phenol-d6 (Surr)	39		10 - 120	09/26/25 13:36	10/09/25 10:34	1
p-Terphenyl-d14 (Surr)	90		47 - 131	09/26/25 13:36	10/09/25 10:34	1

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 570-631607/1-A

Matrix: Water

Analysis Batch: 635970

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 631607

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
2-Methylnaphthalene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Acenaphthene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Acenaphthylene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Anthracene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Benzo[a]anthracene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Benzo[a]pyrene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Chrysene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: MB 570-631607/1-A

Matrix: Water

Analysis Batch: 635970

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 631607

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Fluorene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Naphthalene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Phenanthrene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1
Pyrene	<0.20		0.20	ug/L		09/26/25 13:36	10/06/25 13:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		28 - 127	09/26/25 13:36	10/06/25 13:41	1
2-Fluorobiphenyl (Surr)	77		31 - 120	09/26/25 13:36	10/06/25 13:41	1
2-Fluorophenol (Surr)	55		17 - 120	09/26/25 13:36	10/06/25 13:41	1
Nitrobenzene-d5 (Surr)	83		27 - 120	09/26/25 13:36	10/06/25 13:41	1
Phenol-d6 (Surr)	36		10 - 120	09/26/25 13:36	10/06/25 13:41	1
p-Terphenyl-d14 (Surr)	85		45 - 120	09/26/25 13:36	10/06/25 13:41	1

Lab Sample ID: LCS 570-631607/2-A

Matrix: Water

Analysis Batch: 635970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 631607

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.8		ug/L		69	47 - 120
2-Methylnaphthalene	20.0	13.7		ug/L		69	43 - 120
Acenaphthene	20.0	16.6		ug/L		83	60 - 132
Acenaphthylene	20.0	17.1		ug/L		85	54 - 126
Anthracene	20.0	16.7		ug/L		83	43 - 120
Benzo[a]anthracene	20.0	17.4		ug/L		87	42 - 133
Benzo[a]pyrene	20.0	17.5		ug/L		88	32 - 148
Benzo[b]fluoranthene	20.0	17.4		ug/L		87	42 - 140
Benzo[g,h,i]perylene	20.0	17.0		ug/L		85	1 - 195
Benzo[k]fluoranthene	20.0	17.3		ug/L		87	25 - 146
Chrysene	20.0	17.5		ug/L		87	44 - 140
Dibenz[a,h]anthracene	20.0	18.0		ug/L		90	1 - 200
Fluoranthene	20.0	17.8		ug/L		89	43 - 121
Fluorene	20.0	17.3		ug/L		87	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.5		ug/L		87	1 - 151
Naphthalene	20.0	13.4		ug/L		67	36 - 120
Phenanthrene	20.0	17.3		ug/L		86	65 - 120
Pyrene	20.0	18.1		ug/L		91	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	84		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	43		10 - 120
p-Terphenyl-d14 (Surr)	90		45 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: LCSD 570-631607/3-A

Matrix: Water

Analysis Batch: 635970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 631607

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	13.4		ug/L		67	47 - 120	3	20
2-Methylnaphthalene	20.0	13.3		ug/L		66	43 - 120	4	20
Acenaphthene	20.0	15.5		ug/L		78	60 - 132	7	29
Acenaphthylene	20.0	15.8		ug/L		79	54 - 126	8	45
Anthracene	20.0	15.8		ug/L		79	43 - 120	5	40
Benzo[a]anthracene	20.0	16.5		ug/L		83	42 - 133	5	32
Benzo[a]pyrene	20.0	16.6		ug/L		83	32 - 148	6	43
Benzo[b]fluoranthene	20.0	16.8		ug/L		84	42 - 140	3	43
Benzo[g,h,i]perylene	20.0	16.3		ug/L		82	1 - 195	4	61
Benzo[k]fluoranthene	20.0	16.6		ug/L		83	25 - 146	4	38
Chrysene	20.0	16.6		ug/L		83	44 - 140	5	53
Dibenz(a,h)anthracene	20.0	17.0		ug/L		85	1 - 200	5	75
Fluoranthene	20.0	16.7		ug/L		84	43 - 121	6	40
Fluorene	20.0	16.0		ug/L		80	70 - 120	8	23
Indeno[1,2,3-cd]pyrene	20.0	16.6		ug/L		83	1 - 151	5	60
Naphthalene	20.0	13.0		ug/L		65	36 - 120	3	39
Phenanthrene	20.0	16.2		ug/L		81	65 - 120	7	24
Pyrene	20.0	17.5		ug/L		87	70 - 120	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	77		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-635834/11

Matrix: Water

Analysis Batch: 635834

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			10/05/25 17:30	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	94		38 - 134		10/05/25 17:30	1		

Lab Sample ID: LCS 570-635834/1009

Matrix: Water

Analysis Batch: 635834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	410		ug/L		103	78 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method: 8015B GRO LL - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 570-635834/1009

Matrix: Water

Analysis Batch: 635834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		38 - 134

Lab Sample ID: LCSD 570-635834/10

Matrix: Water

Analysis Batch: 635834

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

				Spike	LCSD	LCSD				%Rec	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (C4-C13)				400	407		ug/L		102	78 - 120	1	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		38 - 134

Lab Sample ID: MRL 570-635834/1004

Matrix: Water

Analysis Batch: 635834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	MRL	MRL						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	9.97	J	ug/L		100	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		38 - 134

Lab Sample ID: 380-173388-B-1 MS

Matrix: Water

Analysis Batch: 635834

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (C4-C13)	<10		400	421		ug/L		105	68 - 122	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		38 - 134

Lab Sample ID: 380-173388-B-1 MSD

Matrix: Water

Analysis Batch: 635834

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Gasoline Range Organics (C4-C13)	<10		400	424		ug/L		106	68 - 122	18

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		38 - 134

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

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

Lab Sample ID: MB 570-632540/1-A

Matrix: Water

Analysis Batch: 635719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 632540

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		09/29/25 09:54	10/05/25 00:50	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/29/25 09:54	10/05/25 00:50	1
C8-C18	<25		25	ug/L		09/29/25 09:54	10/05/25 00:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		60 - 130			09/29/25 09:54	10/05/25 00:50	1

Lab Sample ID: LCS 570-632540/2-A

Matrix: Water

Analysis Batch: 635719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 632540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	1600	1590		ug/L		100	56 - 127	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	92		60 - 130					

Lab Sample ID: LCSD 570-632540/3-A

Matrix: Water

Analysis Batch: 635719

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 632540

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1860		ug/L		116	56 - 127	15	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	103		60 - 130						

Lab Sample ID: MRL 570-632540/4-A

Matrix: Water

Analysis Batch: 635719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 632540

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0270		mg/L		135	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
n-Octacosane (Surr)	84		60 - 130					

Lab Sample ID: MRL 570-632540/4-A

Matrix: Water

Analysis Batch: 636470

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 632540

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
C10-C28	0.0200	0.0276		mg/L		138	50 - 150	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
n-Octacosane (Surr)	92		60 - 130					

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

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

Lab Sample ID: 380-173049-1 MS

Matrix: Water

Analysis Batch: 635719

Client Sample ID: BWS2253-H1-AQ

Prep Type: Total/NA

Prep Batch: 632540

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	55		1640	1730		ug/L		102	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
n-Octacosane (Surr)	92		60 - 130						

Lab Sample ID: 380-173049-1 MSD

Matrix: Water

Analysis Batch: 635719

Client Sample ID: BWS2253-H1-AQ

Prep Type: Total/NA

Prep Batch: 632540

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	55		1600	1850		ug/L		112	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	101		60 - 130								

QC Association Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

GC/MS VOA

Analysis Batch: 633039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1	BWS2253-H1-AQ	Total/NA	Water	8260B	
380-173049-2	BWS2253-H1-TB	Total/NA	Water	8260B	
MB 570-633039/7	Method Blank	Total/NA	Water	8260B	
LCS 570-633039/1003	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-633039/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 631607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1	BWS2253-H1-AQ	Total/NA	Water	625.1	
MB 570-631607/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-631607/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-631607/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 635970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1	BWS2253-H1-AQ	Total/NA	Water	625.1 SIM	631607
MB 570-631607/1-A	Method Blank	Total/NA	Water	625.1 SIM	631607
LCS 570-631607/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	631607
LCSD 570-631607/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	631607

Analysis Batch: 637854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1	BWS2253-H1-AQ	Total/NA	Water	625.1	631607
MB 570-631607/1-A	Method Blank	Total/NA	Water	625.1	631607

GC VOA

Analysis Batch: 635834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1	BWS2253-H1-AQ	Total/NA	Water	8015B GRO LL	
380-173049-2	BWS2253-H1-TB	Total/NA	Water	8015B GRO LL	
MB 570-635834/11	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-635834/1009	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-635834/10	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-635834/1004	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-173388-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-173388-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 632540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1 - RA	BWS2253-H1-AQ	Total/NA	Water	3510C	
380-173049-1	BWS2253-H1-AQ	Total/NA	Water	3510C	
MB 570-632540/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-632540/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-632540/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-632540/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-173049-1 MS	BWS2253-H1-AQ	Total/NA	Water	3510C	
380-173049-1 MSD	BWS2253-H1-AQ	Total/NA	Water	3510C	

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

GC Semi VOA

Analysis Batch: 635719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1	BWS2253-H1-AQ	Total/NA	Water	8015B	632540
MB 570-632540/1-A	Method Blank	Total/NA	Water	8015B	632540
LCS 570-632540/2-A	Lab Control Sample	Total/NA	Water	8015B	632540
LCSD 570-632540/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	632540
MRL 570-632540/4-A	Lab Control Sample	Total/NA	Water	8015B	632540
380-173049-1 MS	BWS2253-H1-AQ	Total/NA	Water	8015B	632540
380-173049-1 MSD	BWS2253-H1-AQ	Total/NA	Water	8015B	632540

Analysis Batch: 636470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-173049-1 - RA	BWS2253-H1-AQ	Total/NA	Water	8015B	632540
MRL 570-632540/4-A	Lab Control Sample	Total/NA	Water	8015B	632540

Lab Chronicle

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-173049-1

Date Collected: 09/23/25 11:15

Matrix: Water

Date Received: 09/24/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	633039	U1MC	EET CAL 4	09/30/25 14:50
Total/NA	Prep	625.1			631607	OAJ3	EET CAL 4	09/26/25 13:36
Total/NA	Analysis	625.1		1	637854	J7WE	EET CAL 4	10/09/25 15:02
Total/NA	Prep	625.1			631607	OAJ3	EET CAL 4	09/26/25 13:36
Total/NA	Analysis	625.1 SIM		1	635970	PQS1	EET CAL 4	10/06/25 16:14
Total/NA	Analysis	8015B GRO LL		1	635834	YD9V	EET CAL 4	10/05/25 20:31
Total/NA	Prep	3510C			632540	TVD6	EET CAL 4	09/29/25 09:55
Total/NA	Analysis	8015B		1	635719	H6FE	EET CAL 4	10/05/25 02:59
Total/NA	Prep	3510C	RA		632540	TVD6	EET CAL 4	09/29/25 09:55
Total/NA	Analysis	8015B	RA	1	636470	H6FE	EET CAL 4	10/07/25 04:47

Client Sample ID: BWS2253-H1-TB

Lab Sample ID: 380-173049-2

Date Collected: 09/23/25 11:15

Matrix: Water

Date Received: 09/24/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	633039	U1MC	EET CAL 4	09/30/25 11:59
Total/NA	Analysis	8015B GRO LL		1	635834	YD9V	EET CAL 4	10/06/25 00:12

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-173049-1
SDG: Site H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-173049-1	BWS2253-H1-AQ	Water	09/23/25 11:15	09/24/25 10:00	Hawaii
380-173049-2	BWS2253-H1-TB	Water	09/23/25 11:15	09/24/25 10:00	Hawaii

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

[illegible]

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-173049-1

SDG Number: Site H

Login Number: 173049

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Tran, Kristine

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is 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").	N/A	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-173049-1

SDG Number: Site H

Login Number: 173049

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 09/24/25 06:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	2.1
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?	N/A	Received project as a subcontract.
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	