

ANALYTICAL REPORT

PREPARED FOR

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Generated 8/20/2024 11:18:51 AM

JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site J

JOB NUMBER

380-106609-1

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: 380-106609-1
SDG: Site J

Qualifiers

GC/MS 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.

GC Semi 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: 380-106609-1

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Eurofins Eaton Analytical Pomona

Job Narrative 380-106609-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 8/1/2024 10:23 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 4.2°C.

GC/MS VOA

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-467026. 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_SIM: The laboratory control sample (LCS) for preparation batch 570-467839 and analytical batch 570-468837 recovered outside control limits for the following analytes: 1-Methylnaphthalene, Acenaphthene, Fluorene, Phenanthrene and Pyrene. The LCS was re-prep and re-ran on instrument. The LCS failed low on 2nd attempt. The samples HT: expired. Sample is now past hold time for re-extraction. Data excluded due to this QC failure.

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.

Detection Summary

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

Job ID: 380-106609-1
SDG: Site J

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-106609-1

No Detections.

Client Sample ID: BWS2253-J1-TB

Lab Sample ID: 380-106609-2

No Detections.

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

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-106609-1

Date Collected: 07/31/24 11:15

Matrix: Drinking Water

Date Received: 08/01/24 10:23

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			08/03/24 04:14	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			08/03/24 04:14	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ug/L			08/03/24 04:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<10		10	ug/L			08/03/24 04:14	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			08/03/24 04:14	1
1,1-Dichloroethane	<1.0		1.0	ug/L			08/03/24 04:14	1
1,1-Dichloroethene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,1-Dichloropropene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,2,3-Trichlorobenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,2,3-Trichloropropane	<5.0		5.0	ug/L			08/03/24 04:14	1
1,2,4-Trichlorobenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,2,4-Trimethylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,2-Dibromo-3-Chloropropane	<10		10	ug/L			08/03/24 04:14	1
1,2-Dichlorobenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,2-Dichloroethane	<0.50		0.50	ug/L			08/03/24 04:14	1
1,2-Dichloropropane	<1.0		1.0	ug/L			08/03/24 04:14	1
1,3,5-Trimethylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,3-Dichlorobenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
1,3-Dichloropropane	<1.0		1.0	ug/L			08/03/24 04:14	1
1,4-Dichlorobenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
2,2-Dichloropropane	<1.0		1.0	ug/L			08/03/24 04:14	1
2-Butanone	<10		10	ug/L			08/03/24 04:14	1
2-Chlorotoluene	<1.0		1.0	ug/L			08/03/24 04:14	1
2-Hexanone	<10		10	ug/L			08/03/24 04:14	1
4-Chlorotoluene	<1.0		1.0	ug/L			08/03/24 04:14	1
Acetone	<10		10	ug/L			08/03/24 04:14	1
Benzene	<0.50		0.50	ug/L			08/03/24 04:14	1
Bromobenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
Bromochloromethane	<2.0		2.0	ug/L			08/03/24 04:14	1
Bromodichloromethane	<1.0		1.0	ug/L			08/03/24 04:14	1
Bromoform	<5.0		5.0	ug/L			08/03/24 04:14	1
Bromomethane	<25		25	ug/L			08/03/24 04:14	1
Carbon disulfide	<10		10	ug/L			08/03/24 04:14	1
Carbon tetrachloride	<0.50		0.50	ug/L			08/03/24 04:14	1
Chlorobenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
Chloroethane	<5.0		5.0	ug/L			08/03/24 04:14	1
Chloroform	<1.0		1.0	ug/L			08/03/24 04:14	1
Chloromethane	<10		10	ug/L			08/03/24 04:14	1
cis-1,2-Dichloroethene	<1.0		1.0	ug/L			08/03/24 04:14	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			08/03/24 04:14	1
Dibromochloromethane	<2.0		2.0	ug/L			08/03/24 04:14	1
Dibromomethane	<1.0		1.0	ug/L			08/03/24 04:14	1
Dichlorodifluoromethane	<5.0		5.0	ug/L			08/03/24 04:14	1
Diethyl ether	<10		10	ug/L			08/03/24 04:14	1
Di-isopropyl ether (DIPE)	<2.0		2.0	ug/L			08/03/24 04:14	1
Ethanol	<100		100	ug/L			08/03/24 04:14	1
Ethylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
Ethylene Dibromide	<1.0		1.0	ug/L			08/03/24 04:14	1
Ethyl-t-butyl ether (ETBE)	<2.0		2.0	ug/L			08/03/24 04:14	1

Client Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-106609-1

Date Collected: 07/31/24 11:15

Matrix: Drinking Water

Date Received: 08/01/24 10:23

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			08/03/24 04:14	1
Hexane	<5.0		5.0	ug/L			08/03/24 04:14	1
Isobutyl alcohol	<75		75	ug/L			08/03/24 04:14	1
Isopropanol	<75		75	ug/L			08/03/24 04:14	1
Isopropylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
m,p-Xylene	<2.0		2.0	ug/L			08/03/24 04:14	1
Methylene Chloride	<10		10	ug/L			08/03/24 04:14	1
Methyl-t-Butyl Ether (MTBE)	<1.0		1.0	ug/L			08/03/24 04:14	1
MIBK	<10		10	ug/L			08/03/24 04:14	1
Naphthalene	<10		10	ug/L			08/03/24 04:14	1
n-Butylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
N-Propylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
o-Xylene	<1.0		1.0	ug/L			08/03/24 04:14	1
p-Isopropyltoluene	<1.0		1.0	ug/L			08/03/24 04:14	1
sec-Butylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
Styrene	<1.0		1.0	ug/L			08/03/24 04:14	1
tert-Amyl alcohol	<50		50	ug/L			08/03/24 04:14	1
Tert-amyl-methyl ether (TAME)	<2.0		2.0	ug/L			08/03/24 04:14	1
tert-Butyl alcohol (TBA)	<10		10	ug/L			08/03/24 04:14	1
tert-Butylbenzene	<1.0		1.0	ug/L			08/03/24 04:14	1
Tetrachloroethene	<1.0		1.0	ug/L			08/03/24 04:14	1
Toluene	<1.0		1.0	ug/L			08/03/24 04:14	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			08/03/24 04:14	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			08/03/24 04:14	1
Trichloroethene	<1.0		1.0	ug/L			08/03/24 04:14	1
Trichlorofluoromethane	<10		10	ug/L			08/03/24 04:14	1
Vinyl acetate	<10		10	ug/L			08/03/24 04:14	1
Vinyl chloride	<0.50		0.50	ug/L			08/03/24 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 123		08/03/24 04:14	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/03/24 04:14	1
Dibromofluoromethane (Surr)	106		78 - 120		08/03/24 04:14	1
Toluene-d8 (Surr)	99		80 - 120		08/03/24 04:14	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			08/07/24 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		38 - 134		08/07/24 23:00	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)	<27		27	ug/L		08/02/24 18:40	08/11/24 13:33	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		08/02/24 18:40	08/11/24 13:33	1
C8-C18	<27		27	ug/L		08/02/24 18:40	08/11/24 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	98		60 - 130		08/02/24 18:40	08/11/24 13:33	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

Client Sample ID: BWS2253-J1-TB

Lab Sample ID: 380-106609-2

Date Collected: 07/31/24 11:15

Matrix: Water

Date Received: 08/01/24 10:23

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			08/03/24 03:50	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			08/03/24 03:50	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ug/L			08/03/24 03:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<10		10	ug/L			08/03/24 03:50	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			08/03/24 03:50	1
1,1-Dichloroethane	<1.0		1.0	ug/L			08/03/24 03:50	1
1,1-Dichloroethene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,1-Dichloropropene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,2,3-Trichlorobenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,2,3-Trichloropropane	<5.0		5.0	ug/L			08/03/24 03:50	1
1,2,4-Trichlorobenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,2,4-Trimethylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,2-Dibromo-3-Chloropropane	<10		10	ug/L			08/03/24 03:50	1
1,2-Dichlorobenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,2-Dichloroethane	<0.50		0.50	ug/L			08/03/24 03:50	1
1,2-Dichloropropane	<1.0		1.0	ug/L			08/03/24 03:50	1
1,3,5-Trimethylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,3-Dichlorobenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
1,3-Dichloropropane	<1.0		1.0	ug/L			08/03/24 03:50	1
1,4-Dichlorobenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
2,2-Dichloropropane	<1.0		1.0	ug/L			08/03/24 03:50	1
2-Butanone	<10		10	ug/L			08/03/24 03:50	1
2-Chlorotoluene	<1.0		1.0	ug/L			08/03/24 03:50	1
2-Hexanone	<10		10	ug/L			08/03/24 03:50	1
4-Chlorotoluene	<1.0		1.0	ug/L			08/03/24 03:50	1
Acetone	<10		10	ug/L			08/03/24 03:50	1
Benzene	<0.50		0.50	ug/L			08/03/24 03:50	1
Bromobenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
Bromochloromethane	<2.0		2.0	ug/L			08/03/24 03:50	1
Bromodichloromethane	<1.0		1.0	ug/L			08/03/24 03:50	1
Bromoform	<5.0		5.0	ug/L			08/03/24 03:50	1
Bromomethane	<25		25	ug/L			08/03/24 03:50	1
Carbon disulfide	<10		10	ug/L			08/03/24 03:50	1
Carbon tetrachloride	<0.50		0.50	ug/L			08/03/24 03:50	1
Chlorobenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
Chloroethane	<5.0		5.0	ug/L			08/03/24 03:50	1
Chloroform	<1.0		1.0	ug/L			08/03/24 03:50	1
Chloromethane	<10		10	ug/L			08/03/24 03:50	1
cis-1,2-Dichloroethene	<1.0		1.0	ug/L			08/03/24 03:50	1
cis-1,3-Dichloropropane	<0.50		0.50	ug/L			08/03/24 03:50	1
Dibromochloromethane	<2.0		2.0	ug/L			08/03/24 03:50	1
Dibromomethane	<1.0		1.0	ug/L			08/03/24 03:50	1
Dichlorodifluoromethane	<5.0		5.0	ug/L			08/03/24 03:50	1
Diethyl ether	<10		10	ug/L			08/03/24 03:50	1
Di-isopropyl ether (DIPE)	<2.0		2.0	ug/L			08/03/24 03:50	1
Ethanol	<100		100	ug/L			08/03/24 03:50	1
Ethylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
Ethylene Dibromide	<1.0		1.0	ug/L			08/03/24 03:50	1
Ethyl-t-butyl ether (ETBE)	<2.0		2.0	ug/L			08/03/24 03:50	1

Client Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

Client Sample ID: BWS2253-J1-TB

Lab Sample ID: 380-106609-2

Date Collected: 07/31/24 11:15

Matrix: Water

Date Received: 08/01/24 10:23

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			08/03/24 03:50	1
Hexane	<5.0		5.0	ug/L			08/03/24 03:50	1
Isobutyl alcohol	<75		75	ug/L			08/03/24 03:50	1
Isopropanol	<75		75	ug/L			08/03/24 03:50	1
Isopropylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
m,p-Xylene	<2.0		2.0	ug/L			08/03/24 03:50	1
Methylene Chloride	<10		10	ug/L			08/03/24 03:50	1
Methyl-t-Butyl Ether (MTBE)	<1.0		1.0	ug/L			08/03/24 03:50	1
MIBK	<10		10	ug/L			08/03/24 03:50	1
Naphthalene	<10		10	ug/L			08/03/24 03:50	1
n-Butylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
N-Propylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
o-Xylene	<1.0		1.0	ug/L			08/03/24 03:50	1
p-Isopropyltoluene	<1.0		1.0	ug/L			08/03/24 03:50	1
sec-Butylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
Styrene	<1.0		1.0	ug/L			08/03/24 03:50	1
tert-Amyl alcohol	<50		50	ug/L			08/03/24 03:50	1
Tert-amyl-methyl ether (TAME)	<2.0		2.0	ug/L			08/03/24 03:50	1
tert-Butyl alcohol (TBA)	<10		10	ug/L			08/03/24 03:50	1
tert-Butylbenzene	<1.0		1.0	ug/L			08/03/24 03:50	1
Tetrachloroethene	<1.0		1.0	ug/L			08/03/24 03:50	1
Toluene	<1.0		1.0	ug/L			08/03/24 03:50	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			08/03/24 03:50	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			08/03/24 03:50	1
Trichloroethene	<1.0		1.0	ug/L			08/03/24 03:50	1
Trichlorofluoromethane	<10		10	ug/L			08/03/24 03:50	1
Vinyl acetate	<10		10	ug/L			08/03/24 03:50	1
Vinyl chloride	<0.50		0.50	ug/L			08/03/24 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 123		08/03/24 03:50	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/03/24 03:50	1
Dibromofluoromethane (Surr)	103		78 - 120		08/03/24 03:50	1
Toluene-d8 (Surr)	101		80 - 120		08/03/24 03:50	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			08/07/24 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		38 - 134		08/07/24 20:24	1

Action Limit Summary

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

Job ID: 380-106609-1
 SDG: Site J

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-106609-1

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
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
cis-1,2-Dichloroethene	<1.0		ug/L	70	70.00	1.0	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

Client Sample ID: BWS2253-J1-TB

Lab Sample ID: 380-106609-2

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
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
cis-1,2-Dichloroethene	<1.0		ug/L	70	70.00	1.0	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

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Action Limit Summary

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

Job ID: 380-106609-1
SDG: Site J

Client Sample ID: BWS2253-J1-TB (Continued)

Lab Sample ID: 380-106609-2

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
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: 380-106609-1
 SDG: Site J

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-123)	BFB (80-120)	DBFM (78-120)	TOL (80-120)
380-106609-1	BWS2253-J1-AQ	105	100	106	99

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

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 (70-123)	BFB (80-120)	DBFM (78-120)	TOL (80-120)
380-106609-2	BWS2253-J1-TB	102	98	103	101
LCS 570-467026/1002	Lab Control Sample	100	103	100	100
LCSD 570-467026/3	Lab Control Sample Dup	99	102	101	100
MB 570-467026/6	Method Blank	102	101	101	100

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-106609-1	BWS2253-J1-AQ	65

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-106378-C-1 MS	Matrix Spike	83
380-106378-C-1 MSD	Matrix Spike Duplicate	79
380-106609-2	BWS2253-J1-TB	60
LCS 570-468381/4	Lab Control Sample	89
LCSD 570-468381/5	Lab Control Sample Dup	85
MB 570-468381/6	Method Blank	75
MRL 570-468381/3	Lab Control Sample	70

Surrogate Legend
 BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-106609-1
SDG: Site J

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-106609-1	BWS2253-J1-AQ	98

Surrogate Legend

OTCSN = n-Octacosane (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)
380-106529-C-1-A MS	Matrix Spike	106
380-106529-C-1-B MSD	Matrix Spike Duplicate	105
LCS 570-467007/2-A	Lab Control Sample	111
LCSD 570-467007/3-A	Lab Control Sample Dup	107
MB 570-467007/1-A	Method Blank	102
MRL 570-467007/4-A	Lab Control Sample	107

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: MB 570-467026/6
Matrix: Water
Analysis Batch: 467026

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			08/02/24 22:36	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			08/02/24 22:36	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ug/L			08/02/24 22:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<10		10	ug/L			08/02/24 22:36	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			08/02/24 22:36	1
1,1-Dichloroethane	<1.0		1.0	ug/L			08/02/24 22:36	1
1,1-Dichloroethene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,1-Dichloropropene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,2,3-Trichlorobenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,2,3-Trichloropropane	<5.0		5.0	ug/L			08/02/24 22:36	1
1,2,4-Trichlorobenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,2,4-Trimethylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,2-Dibromo-3-Chloropropane	<10		10	ug/L			08/02/24 22:36	1
1,2-Dichlorobenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,2-Dichloroethane	<0.50		0.50	ug/L			08/02/24 22:36	1
1,2-Dichloropropane	<1.0		1.0	ug/L			08/02/24 22:36	1
1,3,5-Trimethylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,3-Dichlorobenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
1,3-Dichloropropane	<1.0		1.0	ug/L			08/02/24 22:36	1
1,4-Dichlorobenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
2,2-Dichloropropane	<1.0		1.0	ug/L			08/02/24 22:36	1
2-Butanone	<10		10	ug/L			08/02/24 22:36	1
2-Chlorotoluene	<1.0		1.0	ug/L			08/02/24 22:36	1
2-Hexanone	<10		10	ug/L			08/02/24 22:36	1
4-Chlorotoluene	<1.0		1.0	ug/L			08/02/24 22:36	1
Acetone	<10		10	ug/L			08/02/24 22:36	1
Benzene	<0.50		0.50	ug/L			08/02/24 22:36	1
Bromobenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
Bromochloromethane	<2.0		2.0	ug/L			08/02/24 22:36	1
Bromodichloromethane	<1.0		1.0	ug/L			08/02/24 22:36	1
Bromoform	<5.0		5.0	ug/L			08/02/24 22:36	1
Bromomethane	<25		25	ug/L			08/02/24 22:36	1
Carbon disulfide	<10		10	ug/L			08/02/24 22:36	1
Carbon tetrachloride	<0.50		0.50	ug/L			08/02/24 22:36	1
Chlorobenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
Chloroethane	<5.0		5.0	ug/L			08/02/24 22:36	1
Chloroform	<1.0		1.0	ug/L			08/02/24 22:36	1
Chloromethane	<10		10	ug/L			08/02/24 22:36	1
cis-1,2-Dichloroethene	<1.0		1.0	ug/L			08/02/24 22:36	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			08/02/24 22:36	1
Dibromochloromethane	<2.0		2.0	ug/L			08/02/24 22:36	1
Dibromomethane	<1.0		1.0	ug/L			08/02/24 22:36	1
Dichlorodifluoromethane	<5.0		5.0	ug/L			08/02/24 22:36	1
Diethyl ether	<10		10	ug/L			08/02/24 22:36	1
Di-isopropyl ether (DIPE)	<2.0		2.0	ug/L			08/02/24 22:36	1
Ethanol	<100		100	ug/L			08/02/24 22:36	1
Ethylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
Ethylene Dibromide	<1.0		1.0	ug/L			08/02/24 22:36	1

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QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: MB 570-467026/6
Matrix: Water
Analysis Batch: 467026

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			08/02/24 22:36	1
Hexachloro-1,3-butadiene	<10		10	ug/L			08/02/24 22:36	1
Hexane	<5.0		5.0	ug/L			08/02/24 22:36	1
Isobutyl alcohol	<75		75	ug/L			08/02/24 22:36	1
Isopropanol	<75		75	ug/L			08/02/24 22:36	1
Isopropylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
m,p-Xylene	<2.0		2.0	ug/L			08/02/24 22:36	1
Methylene Chloride	<10		10	ug/L			08/02/24 22:36	1
Methyl-t-Butyl Ether (MTBE)	<1.0		1.0	ug/L			08/02/24 22:36	1
MIBK	<10		10	ug/L			08/02/24 22:36	1
Naphthalene	<10		10	ug/L			08/02/24 22:36	1
n-Butylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
N-Propylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
o-Xylene	<1.0		1.0	ug/L			08/02/24 22:36	1
p-Isopropyltoluene	<1.0		1.0	ug/L			08/02/24 22:36	1
sec-Butylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
Styrene	<1.0		1.0	ug/L			08/02/24 22:36	1
tert-Amyl alcohol	<50		50	ug/L			08/02/24 22:36	1
Tert-amyl-methyl ether (TAME)	<2.0		2.0	ug/L			08/02/24 22:36	1
tert-Butyl alcohol (TBA)	<10		10	ug/L			08/02/24 22:36	1
tert-Butylbenzene	<1.0		1.0	ug/L			08/02/24 22:36	1
Tetrachloroethene	<1.0		1.0	ug/L			08/02/24 22:36	1
Toluene	<1.0		1.0	ug/L			08/02/24 22:36	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			08/02/24 22:36	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			08/02/24 22:36	1
Trichloroethene	<1.0		1.0	ug/L			08/02/24 22:36	1
Trichlorofluoromethane	<10		10	ug/L			08/02/24 22:36	1
Vinyl acetate	<10		10	ug/L			08/02/24 22:36	1
Vinyl chloride	<0.50		0.50	ug/L			08/02/24 22:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 123		08/02/24 22:36	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/02/24 22:36	1
Dibromofluoromethane (Surr)	101		78 - 120		08/02/24 22:36	1
Toluene-d8 (Surr)	100		80 - 120		08/02/24 22:36	1

Lab Sample ID: LCS 570-467026/1002
Matrix: Water
Analysis Batch: 467026

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	21.3		ug/L		107	80 - 122
1,1,1-Trichloroethane	20.0	20.3		ug/L		102	78 - 125
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	79 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.8		ug/L		104	72 - 138
1,1,2-Trichloroethane	20.0	21.5		ug/L		107	80 - 124
1,1-Dichloroethane	20.0	20.0		ug/L		100	80 - 127
1,1-Dichloroethene	20.0	20.2		ug/L		101	80 - 133

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QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: LCS 570-467026/1002
Matrix: Water
Analysis Batch: 467026

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	19.7		ug/L		99	79 - 126
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	79 - 128
1,2,3-Trichloropropane	20.0	21.1		ug/L		105	71 - 128
1,2,4-Trichlorobenzene	20.0	20.8		ug/L		104	77 - 126
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	18.9		ug/L		95	66 - 122
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 121
1,2-Dichloroethane	20.0	19.0		ug/L		95	77 - 122
1,2-Dichloropropane	20.0	20.7		ug/L		103	80 - 122
1,3,5-Trimethylbenzene	20.0	20.7		ug/L		103	80 - 123
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120
1,3-Dichloropropane	20.0	20.9		ug/L		104	80 - 121
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 120
2,2-Dichloropropane	20.0	22.6		ug/L		113	68 - 143
2-Butanone	20.0	18.2		ug/L		91	61 - 139
2-Chlorotoluene	20.0	19.5		ug/L		98	80 - 121
2-Hexanone	20.0	18.0		ug/L		90	63 - 134
4-Chlorotoluene	20.0	20.3		ug/L		101	80 - 121
Acetone	20.0	16.1		ug/L		81	45 - 150
Benzene	20.0	19.8		ug/L		99	80 - 121
Bromobenzene	20.0	20.3		ug/L		101	80 - 120
Bromochloromethane	20.0	21.4		ug/L		107	80 - 121
Bromodichloromethane	20.0	20.7		ug/L		104	80 - 121
Bromoform	20.0	20.6		ug/L		103	78 - 124
Bromomethane	20.0	20.6	J	ug/L		103	48 - 156
Carbon disulfide	20.0	19.4		ug/L		97	76 - 129
Carbon tetrachloride	20.0	19.5		ug/L		97	71 - 137
Chlorobenzene	20.0	20.6		ug/L		103	80 - 120
Chloroethane	20.0	18.8		ug/L		94	73 - 138
Chloroform	20.0	20.5		ug/L		103	80 - 121
Chloromethane	20.0	17.7		ug/L		88	57 - 138
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	80 - 125
cis-1,3-Dichloropropane	20.0	21.3		ug/L		106	80 - 120
Dibromochloromethane	20.0	20.7		ug/L		103	80 - 126
Dibromomethane	20.0	20.1		ug/L		101	80 - 120
Dichlorodifluoromethane	20.0	17.5		ug/L		87	44 - 148
Diethyl ether	20.0	19.8		ug/L		99	71 - 132
Di-isopropyl ether (DIPE)	20.0	20.8		ug/L		104	75 - 134
Ethanol	200	218		ug/L		109	50 - 168
Ethylbenzene	20.0	20.5		ug/L		103	80 - 121
Ethylene Dibromide	20.0	21.7		ug/L		108	80 - 120
Ethyl-t-butyl ether (ETBE)	20.0	21.0		ug/L		105	80 - 124
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 121
m,p-Xylene	40.0	41.1		ug/L		103	80 - 123
Methylene Chloride	20.0	19.5		ug/L		97	80 - 121
Methyl-t-Butyl Ether (MTBE)	20.0	20.8		ug/L		104	78 - 123
MIBK	20.0	19.5		ug/L		97	67 - 125
Naphthalene	20.0	19.4		ug/L		97	65 - 133
n-Butylbenzene	20.0	20.6		ug/L		103	80 - 125

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: LCS 570-467026/1002
Matrix: Water
Analysis Batch: 467026

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	20.6		ug/L		103	80 - 125
o-Xylene	20.0	20.7		ug/L		104	80 - 122
p-Isopropyltoluene	20.0	20.7		ug/L		104	80 - 124
sec-Butylbenzene	20.0	19.9		ug/L		100	80 - 122
Styrene	20.0	20.7		ug/L		104	80 - 120
tert-Amyl alcohol	100	97.6		ug/L		98	51 - 148
Tert-amyl-methyl ether (TAME)	20.0	20.9		ug/L		104	74 - 125
tert-Butyl alcohol (TBA)	100	109		ug/L		109	70 - 141
tert-Butylbenzene	20.0	19.2		ug/L		96	80 - 122
Tetrachloroethene	20.0	20.3		ug/L		102	80 - 122
Toluene	20.0	19.7		ug/L		99	80 - 120
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	80 - 122
trans-1,3-Dichloropropene	20.0	22.6		ug/L		113	80 - 125
Trichloroethene	20.0	19.6		ug/L		98	80 - 120
Trichlorofluoromethane	20.0	19.4		ug/L		97	67 - 142
Vinyl acetate	20.0	21.7		ug/L		109	62 - 140
Vinyl chloride	20.0	17.7		ug/L		89	66 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 123
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	100		78 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 570-467026/3
Matrix: Water
Analysis Batch: 467026

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	20.5		ug/L		103	80 - 122	4	20
1,1,1-Trichloroethane	20.0	18.3		ug/L		91	78 - 125	11	20
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	79 - 127	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.8		ug/L		94	72 - 138	11	20
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 124	2	20
1,1-Dichloroethane	20.0	18.8		ug/L		94	80 - 127	6	20
1,1-Dichloroethene	20.0	18.2		ug/L		91	80 - 133	10	20
1,1-Dichloropropene	20.0	18.4		ug/L		92	79 - 126	7	20
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	79 - 128	5	20
1,2,3-Trichloropropane	20.0	20.7		ug/L		104	71 - 128	2	20
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	77 - 126	4	20
1,2,4-Trimethylbenzene	20.0	19.2		ug/L		96	80 - 121	7	20
1,2-Dibromo-3-Chloropropane	20.0	19.8		ug/L		99	66 - 122	4	20
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 121	4	20
1,2-Dichloroethane	20.0	18.8		ug/L		94	77 - 122	1	20
1,2-Dichloropropane	20.0	19.5		ug/L		97	80 - 122	6	20
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	80 - 123	8	20
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120	8	20
1,3-Dichloropropane	20.0	20.1		ug/L		101	80 - 121	4	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: LCSD 570-467026/3
Matrix: Water
Analysis Batch: 467026

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	80 - 120	3	20
2,2-Dichloropropane	20.0	20.5		ug/L		102	68 - 143	10	20
2-Butanone	20.0	19.2		ug/L		96	61 - 139	5	25
2-Chlorotoluene	20.0	18.9		ug/L		94	80 - 121	3	20
2-Hexanone	20.0	17.7		ug/L		88	63 - 134	2	21
4-Chlorotoluene	20.0	20.1		ug/L		100	80 - 121	1	20
Acetone	20.0	16.6		ug/L		83	45 - 150	3	23
Benzene	20.0	18.5		ug/L		93	80 - 121	7	20
Bromobenzene	20.0	19.4		ug/L		97	80 - 120	4	20
Bromochloromethane	20.0	20.5		ug/L		103	80 - 121	4	20
Bromodichloromethane	20.0	19.2		ug/L		96	80 - 121	7	20
Bromoform	20.0	19.6		ug/L		98	78 - 124	5	20
Bromomethane	20.0	18.5	J	ug/L		92	48 - 156	11	21
Carbon disulfide	20.0	17.5		ug/L		88	76 - 129	10	20
Carbon tetrachloride	20.0	17.9		ug/L		90	71 - 137	8	20
Chlorobenzene	20.0	19.0		ug/L		95	80 - 120	8	20
Chloroethane	20.0	17.9		ug/L		90	73 - 138	5	20
Chloroform	20.0	19.3		ug/L		97	80 - 121	6	20
Chloromethane	20.0	16.4		ug/L		82	57 - 138	8	20
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	80 - 125	6	20
cis-1,3-Dichloropropene	20.0	20.6		ug/L		103	80 - 120	3	20
Dibromochloromethane	20.0	19.8		ug/L		99	80 - 126	5	20
Dibromomethane	20.0	19.5		ug/L		97	80 - 120	3	20
Dichlorodifluoromethane	20.0	16.3		ug/L		82	44 - 148	7	28
Diethyl ether	20.0	18.9		ug/L		95	71 - 132	5	20
Di-isopropyl ether (DIPE)	20.0	19.4		ug/L		97	75 - 134	7	20
Ethanol	200	282		ug/L		141	50 - 168	26	29
Ethylbenzene	20.0	18.9		ug/L		95	80 - 121	8	20
Ethylene Dibromide	20.0	20.1		ug/L		100	80 - 120	8	20
Ethyl-t-butyl ether (ETBE)	20.0	20.0		ug/L		100	80 - 124	5	20
Isopropylbenzene	20.0	18.6		ug/L		93	80 - 121	10	20
m,p-Xylene	40.0	37.8		ug/L		95	80 - 123	8	20
Methylene Chloride	20.0	18.9		ug/L		94	80 - 121	3	20
Methyl-t-Butyl Ether (MTBE)	20.0	19.8		ug/L		99	78 - 123	5	20
MIBK	20.0	18.2		ug/L		91	67 - 125	7	20
Naphthalene	20.0	19.2		ug/L		96	65 - 133	1	20
n-Butylbenzene	20.0	19.2		ug/L		96	80 - 125	7	20
N-Propylbenzene	20.0	18.8		ug/L		94	80 - 125	9	20
o-Xylene	20.0	19.3		ug/L		96	80 - 122	7	20
p-Isopropyltoluene	20.0	19.0		ug/L		95	80 - 124	9	20
sec-Butylbenzene	20.0	18.9		ug/L		95	80 - 122	5	20
Styrene	20.0	19.1		ug/L		96	80 - 120	8	20
tert-Amyl alcohol	100	87.1		ug/L		87	51 - 148	11	29
Tert-amyl-methyl ether (TAME)	20.0	20.0		ug/L		100	74 - 125	4	20
tert-Butyl alcohol (TBA)	100	125		ug/L		125	70 - 141	14	20
tert-Butylbenzene	20.0	18.0		ug/L		90	80 - 122	6	20
Tetrachloroethene	20.0	18.1		ug/L		90	80 - 122	12	20
Toluene	20.0	18.5		ug/L		93	80 - 120	6	20
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	80 - 122	8	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: LCSD 570-467026/3
Matrix: Water
Analysis Batch: 467026

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	21.2		ug/L		106	80 - 125	6	20
Trichloroethene	20.0	18.2		ug/L		91	80 - 120	7	20
Trichlorofluoromethane	20.0	18.1		ug/L		90	67 - 142	7	20
Vinyl acetate	20.0	20.8		ug/L		104	62 - 140	4	21
Vinyl chloride	20.0	16.8		ug/L		84	66 - 136	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 123
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	101		78 - 120
Toluene-d8 (Surr)	100		80 - 120

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

Lab Sample ID: MB 570-468381/6
Matrix: Water
Analysis Batch: 468381

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			08/07/24 13:51	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		38 - 134		08/07/24 13:51	1

Lab Sample ID: LCS 570-468381/4
Matrix: Water
Analysis Batch: 468381

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	380		ug/L		95	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	89		38 - 134

Lab Sample ID: LCSD 570-468381/5
Matrix: Water
Analysis Batch: 468381

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
Gasoline Range Organics (C4-C13)	400	368		ug/L		92	78 - 120	3	10

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	85		38 - 134

QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: MRL 570-468381/3
Matrix: Water
Analysis Batch: 468381

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	12.5		ug/L		125	50 - 150
Surrogate		MRL %Recovery	MRL Qualifier				Limits
4-Bromofluorobenzene (Surr)		70					38 - 134

Lab Sample ID: 380-106378-C-1 MS
Matrix: Water
Analysis Batch: 468381

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	326		ug/L		81	68 - 122
Surrogate		MS %Recovery		MS Qualifier					Limits
4-Bromofluorobenzene (Surr)		83							38 - 134

Lab Sample ID: 380-106378-C-1 MSD
Matrix: Water
Analysis Batch: 468381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	325		ug/L		81	68 - 122	0	18
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
4-Bromofluorobenzene (Surr)		79							38 - 134		

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

Lab Sample ID: MB 570-467007/1-A
Matrix: Water
Analysis Batch: 469622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467007

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		08/02/24 18:40	08/11/24 09:46	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		08/02/24 18:40	08/11/24 09:46	1
C8-C18	<25		25	ug/L		08/02/24 18:40	08/11/24 09:46	1
Surrogate		MB %Recovery	MB Qualifier			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		102				08/02/24 18:40	08/11/24 09:46	1

Lab Sample ID: LCS 570-467007/2-A
Matrix: Water
Analysis Batch: 469622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	2000	1840		ug/L		92	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-106609-1
 SDG: Site J

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

Lab Sample ID: LCS 570-467007/2-A
Matrix: Water
Analysis Batch: 469622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467007

	LCS %Recovery	LCS Qualifier	Limits
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	111		60 - 130

Lab Sample ID: LCSD 570-467007/3-A
Matrix: Water
Analysis Batch: 469622

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 467007

	Spike Added	LCSD Result	LCSD Qualifier		Unit	D	%Rec	%Rec Limits	RPD	Limit
Analyte C10-C28	2000	1790			ug/L		89	56 - 127	3	23
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>										
	LCSD %Recovery	LCSD Qualifier	Limits							
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	107		60 - 130							

Lab Sample ID: MRL 570-467007/4-A
Matrix: Water
Analysis Batch: 469622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467007

	Spike Added	MRL Result	MRL Qualifier		Unit	D	%Rec	%Rec Limits
Analyte C10-C28	0.0200	0.0202	J		mg/L		101	50 - 150
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>								
	MRL %Recovery	MRL Qualifier	Limits					
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	107		60 - 130					

Lab Sample ID: 380-106529-C-1-A MS
Matrix: Water
Analysis Batch: 469622

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 467007

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier		D	%Rec	%Rec Limits
Analyte C10-C28	<27		2170	2110		ug/L		97	70 - 130
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>									
	MS %Recovery	MS Qualifier	Limits						
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	106		60 - 130						

Lab Sample ID: 380-106529-C-1-B MSD
Matrix: Water
Analysis Batch: 469622

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 467007

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier		D	%Rec	%Rec Limits	RPD	Limit
Analyte C10-C28	<27		2170	2120		ug/L		98	70 - 130	1	20
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>											
	MSD %Recovery	MSD Qualifier	Limits								
<i>Surrogate</i> <i>n-Octacosane (Surr)</i>	105		60 - 130								

QC Association Summary

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

Job ID: 380-106609-1
 SDG: Site J

GC/MS VOA

Analysis Batch: 467026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-106609-1	BWS2253-J1-AQ	Total/NA	Drinking Water	8260B	
380-106609-2	BWS2253-J1-TB	Total/NA	Water	8260B	
MB 570-467026/6	Method Blank	Total/NA	Water	8260B	
LCS 570-467026/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-467026/3	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 468381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-106609-1	BWS2253-J1-AQ	Total/NA	Drinking Water	8015B GRO LL	
380-106609-2	BWS2253-J1-TB	Total/NA	Water	8015B GRO LL	
MB 570-468381/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-468381/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-468381/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-468381/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-106378-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-106378-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 467007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-106609-1	BWS2253-J1-AQ	Total/NA	Drinking Water	3510C	
MB 570-467007/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-467007/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-467007/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-467007/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-106529-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-106529-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 469622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-106609-1	BWS2253-J1-AQ	Total/NA	Drinking Water	8015B	467007
MB 570-467007/1-A	Method Blank	Total/NA	Water	8015B	467007
LCS 570-467007/2-A	Lab Control Sample	Total/NA	Water	8015B	467007
LCSD 570-467007/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	467007
MRL 570-467007/4-A	Lab Control Sample	Total/NA	Water	8015B	467007
380-106529-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	467007
380-106529-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	467007

Lab Chronicle

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

Job ID: 380-106609-1
 SDG: Site J

Client Sample ID: BWS2253-J1-AQ
Date Collected: 07/31/24 11:15
Date Received: 08/01/24 10:23

Lab Sample ID: 380-106609-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	467026	AH8S	EET CAL 4	08/03/24 04:14
Total/NA	Analysis	8015B GRO LL		1	468381	GC3Z	EET CAL 4	08/07/24 23:00
Total/NA	Prep	3510C			467007	H6FE	EET CAL 4	08/02/24 18:40
Total/NA	Analysis	8015B		1	469622	SP9M	EET CAL 4	08/11/24 13:33

Client Sample ID: BWS2253-J1-TB
Date Collected: 07/31/24 11:15
Date Received: 08/01/24 10:23

Lab Sample ID: 380-106609-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	467026	AH8S	EET CAL 4	08/03/24 03:50
Total/NA	Analysis	8015B GRO LL		1	468381	GC3Z	EET CAL 4	08/07/24 20:24

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: 380-106609-1
 SDG: Site J

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
Arizona	State	AZ0830	11-16-24
Arkansas DEQ	State	88-0161	07-02-25
California	Los Angeles County Sanitation Districts	9257304	08-01-24 *
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	10-31-24
Oregon	NELAP	4175	02-02-25
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

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

Job ID: 380-106609-1
SDG: Site J

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	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

Protocol References:

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: 380-106609-1
SDG: Site J

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
380-106609-1	BWS2253-J1-AQ	Drinking Water	07/31/24 11:15	08/01/24 10:23
380-106609-2	BWS2253-J1-TB	Water	07/31/24 11:15	08/01/24 10:23

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- 16

Chain of Custody Record



Client Information		Lab PM Arada, Rachelle	Carrier Tracking No(s) 380-106609 COC	COC No
Client Contact: Mr Erwin Kawata		Phone 858-205-0730	State of Origin: Hawaii	Page: Page 1 of 1
Company: City & County of Honolulu		E-Mail: Rachelle.Arada@eurofins.com	PWSID	Job #:
Address: 630 South Beretania Street Honolulu State Zip HI, 96843		Analysis Requested		
Phone: 808-748-5066(Tel)		Preservation Codes: M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSC4 F - MeOH G - Anchor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other		
Email: ekawata@hbws.org		Special Instructions/Note: x = testing comes from another container.		
Project Name: HRS-340E - RED-HILL - INTERA		Subcontract Notes: 625 PAH - EEA Pom -> Ship to Calscienc 8015 TPH D+M, JP5, JP8 - EEA Pom 8015 Gas - EEA Pom 8260B - EEA POM PFAS-337-T & 333 - EEA POM PFAS-1633 - EEA SAC Bill and Report to EEA - Pomona		
Site: Site J		Total Number of containers		
Sample Identification		Field Filtered Sample (Yes or No)		
Sample Date		Perform MS/MSD (Yes or No)		
Sample Time		SUBCONTRACT - 8015 Gas		
Sample Type (C=Comp, G=grab)		SUBCONTRACT - (MD) Super Volatiles List		
Matrix (W=water, S=solid, O=wastabil, BT=Tissue, A=Air)		SUBCONTRACT - TPH 8015 D+M, JP5, JP8		
Preservation Code		SUBCONTRACT - 625 - PAH Only + TICs		
Sample Date		SUBCONTRACT - 8260B - (MD) Super Volatiles List		
Sample Time		SUBCONTRACT - 8015 Gas		
Sample Type (C=Comp, G=grab)		PFAS 533 - All Analytes		
Matrix (W=water, S=solid, O=wastabil, BT=Tissue, A=Air)		PFAS 337-T, BW, PREC, 337-T, FdH List		
Preservation Code		PFAS 1633, DDP5, 1633 Sid List		
Sample Date		21		
Sample Time		8		
Sample Type (C=Comp, G=grab)		4		
Matrix (W=water, S=solid, O=wastabil, BT=Tissue, A=Air)		0		
Preservation Code		4		
Sample Date		8		
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Bottle Order Information

Bottle Order INTERA - Site J (EEA_Pom)
 Bottle Order # 18798
 Request From Client 7/15/2024
 Date Order Posted 7/15/2024 3 34 37PM
 Order Status Ready To Process
 Prepared By Rachelle Arada
Deliver By Date: 7/15/2024 11:59:00PM
 Lab Project Number 38000861
 PWSID

Order Completion Information

Creator Rachelle Arada
 Filled by
 Sent Date
 Sent Via
 Tracking #

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
1	4	4	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	8260B - (MOD) Super Volatiles List	Water	Normal		
1	4	4	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	8015B_GRO_LL - (MOD) GRO	Water	Normal		
1	2	2	Amber Glass 500mL - Na2SO3	Sodium Sulfite	8015B_DRO_LL CS - HNL Ranges: C10-C24/C24-C36/C8-C18	Water	Normal		
1	3	3	Plastic 250ml - Trizma	Trizma	537 1_DW_PREC - 537 1 Full List	Water	Normal		
1	3	3	Plastic 250ml - Ammonium Acetate	Ammonium Acetate	533 - All Analytes	Water	Normal		
1	2	2	Amber Glass 1 liter - unpreserved	None	625 1_SIM - (MOD) Extended PAH List	Water	Normal		
1	2	2	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	625 1 - (MOD) Tentatively Identified Compounds	Water	Normal		
1	2	2	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	8260B - (MOD) Super Volatiles List	Water	Trip Blank		
1	2	2	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	8015B_GRO_LL - (MOD) GRO	Water	Trip Blank		
1	1	1	Plastic 250ml - Reagent Water	None	537 1_DW_PREC - 537 1 Full List	Water	Field Blank		
1	1	1	Plastic 250ml - Trizma	Trizma	537 1_DW_PREC - 537 1 Full List	Water	Field Blank		
1	1	1	Plastic 250ml - Reagent Water	None	533 - All Analytes	Water	Field Blank		
1	1	1	Plastic 250ml - Ammonium Acetate	Ammonium Acetate	533 - All Analytes	Water	Field Blank		

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.



Total Bottle Summary

Bottle Type Description

Field Blank

Plastic 250ml - Reagent Water
Plastic 250ml - Trizma
Plastic 250ml - Ammonium Acetate

Normal

Amber Glass 1 liter - unpreserved
Amber Glass 500mL - Na2SO3
Plastic 250ml - Trizma
Plastic 250ml - Ammonium Acetate
Voa Vial 40ml - Hydrochloric Acid

Trip Blank

Voa Vial 40ml - Hydrochloric Acid

Preservative

None
Trizma
Ammonium Acetate

None
Sodium Sulfite
Trizma
Ammonium Acetate
Hydrochloric Acid

18

2

2

3

3

8

4

4

Total Bottles. 26

Notes to Field Staff:



Scan QR code for field sampler instructions

Health and Safety Notes:

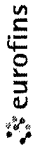
Preservative	Comment
Ammonium Acetate	Caution! May cause eye, skin, and respiratory tract irritation. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water
Hydrochloric Acid	CAUTION! CONTAINS 1 1 HYDROCHLORIC ACID Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water
Sodium Sulfite	CAUTION! CONTAINS SODIUM SULFITE Harmful if inhaled. Use adequate ventilation. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water
Trizma	CAUTION! May cause eye, skin, and respiratory tract irritation

Relinquished By	Company	Date	Time	Received By	Company	Seal #
Relinquished By	Company	Date	Time	Received By	Company	Seal #

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.



Chain of Custody Record



Client Information		Lab PM Arada Rachelle		Carrier Tracking No(s): 380-64584-18798 1	
Client Contact: Kevin Gooding/ Eva Kakone		E-Mail Rachelle.Arada@et.eurofins.com		State of Origin:	
Company: INTERA Inc		PMSID:		Job #:	
Address: 74 Kihapai Steet		Due Date Requested		Preservation Codes: A - HCL Q - Na2SO3 Y - Trizma I - NH4 Acetate N - None	
City: Kailua		TAT Requested (days):		Other	
State Zip: HI, 96734		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Number of Containers	
Phone: 808-748-5091(Tel)		PO #: C20525101 exp 05312023			
Email: ekakone@intera.com		WO #:		Analysis Requested	
Project Name: INTERA - Red-Hill-Incident		Project #: 38000861			
Site: Hawaii		SOW#:		Perform MS/MSD (Yes or No)	
				Field Filtered Sample (Yes or No)	
				8260B - (MOD) Super Vials List	
				8015B_GRO_LL - (MOD) GRO	
				8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18	
				537 1 DW_PREC - 637 1 Full List	
				533 - All Analytes	
				625, 1, 625, 1_SIM	
				Special Instructions/Note:	
				Sample Disposal (A Fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements.	
				Method of Shipment	
				Received by: _____ Date/Time: _____ Company: _____	
				Received by: _____ Date/Time: _____ Company: _____	
				Received by: _____ Date/Time: _____ Company: _____	
				Cooler Temperature(s) °C and Other Remarks.	



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler		Lab P/N:		Carrier Tracking No(s):		COC No:	
Client Contact:		Arada, Rachelle		380-142464-1		State of Origin:		Page:	
Shipping/Receiving		Rachelle.Arada@et.eurofins.com		Hawaii		Accreditations Required (See note):		Job #:	
Company:		State Hawaii		380-106609-1		Preservation Codes:			
Address:		2841 Dow Avenue, Suite 100,		City:		Tustin		Due Date Requested:	
State, Zip:		CA, 92780		PO #:		WO #:		TAT Requested (days):	
Phone:		714-895-5494(Tel)		Project #:		38000861		8/21/2024	
Email:				SSOW#:					
Project Name:		INTERA Red-Hill-Incident		Site:		Honolulu BWS Sites		Analysis Requested	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Seawater, O-waters, Aq)	
BWS2253-J1-AQ (380-106609-1)		7/31/24		11:15 Hawaiian		Water		Preservation Code:	
BWS2253-J1 TB (380-106609-2)		7/31/24		11:15 Hawaiian		Water		Field Filtered Sample (Yes or No)	
								Perform MS/MSD (Yes or No)	
								8016B_DRO_LL_CS/3510C_LL_HNL Ranges: C10	
								8016B_GRO_LL/5030C (MOD) GRO	
								625_1_SIM/625_Prep (MOD) Extended PAH List	
								8260B/5030C (MOD) Super Volatiles List	
								Total Number of Containers	
								Special Instructions/Note:	
								initial volume (500ml) and final volume (2ml). MRLs are needed.	
								MRLs are needed.	
								Extra containers provided for MS/MSD	



Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I II III IV Other (specify) _____
 Empty Kit Relinquished by _____ Date: _____ Method of Shipment: _____
 Relinquished by: _____ Company: _____
 Relinquished by: _____ Date/Time: 8/11/24 1509 Company: DCS
 Relinquished by: _____ Date/Time: 8-1-24 16:03 Company: EC
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No. _____
 Δ Yes Δ No

Special Instructions/QIC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

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/test/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 Eurofins Eaton Analytical, LLC.

Cooler Temperature(s) °C and Other Remarks: 18/1-8 Seiz

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-106609-1

SDG Number: Site J

Login Number: 106609

List Number: 1

Creator: Gerfen, Chris

List Source: Eurofins Eaton Analytical Pomona

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: 380-106609-1

SDG Number: Site J

Login Number: 106609

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/01/24 05:24 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	1.8
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

