Atmospheric Analysis & Consulting, Inc.

CLIENT : Sacramento Metropolitan AQMD
PROJECT NAME : AB617 VOC Analysis
PROJECT NO. : Contract 2023-00000016
AAC PROJECT NO. : 231750 Rev 1
REPORT DATE : 02/09/2024

On September 5, 2023, Atmospheric Analysis & Consulting, Inc. received three (3) 6.0-Liter Silonite Canisters for Volatile Organic Compounds and Tentatively Identified Compounds (TICs) analysis by EPA Method TO-15. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab ID	Return Pressure (mmHga)
617Fern 001803	231750-48417	1320.6
617Fern 001791	231750-48418	1335.2
617Fern 001728	231750-48419	1339.3

This analysis is accredited under the laboratory's ISO/IEC 17025:2017 accreditation issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1908. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Sample "617Fern 001803" was received past the recommended holding time of 30 days for samples from a Silonite Canister. Samples "617Fern 001791" (48418) and "617Fern 001728" (48419) were analyzed after the recommended holding time of 30 days for samples from a Silonite Canister had passed. No other problems were encountered during receiving, preparation, and/or analysis of these samples.

The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

Amended Report 231750 Rev 1 supersedes Original Report 231750. The amended report was issued on 02/09/2024. Per client request, can numbers were added to the sample names.

This report consists of 18 pages.

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001803			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001791			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48417				231750-48418				
Date Sampled	07/29/2023				08/10/2023				
Date Analyzed	09/18/2023				09/18/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Propene	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Dichlorodifluoromethane	0.46	J	1	0.50	0.53		1	0.50	0.50
Dimethyl Ether	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chloromethane	<SDL	ND	1	0.50	0.15	J	1	0.50	0.50
Dichlorotetrafluoroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Vinyl Chloride	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Acetaldehyde	7.30		1	5.00	30.4		1	5.00	5.00
Methanol	8.38		1	5.00	11.0		1	5.00	5.00
1,3-Butadiene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Bromomethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Dichlorofluoromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethanol	2.93		1	2.00	<SDL	ND	1	2.00	2.00
Vinyl Bromide	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Acrolein	0.46	J	1	1.00	1.67		1	1.00	1.00
Acetone	4.75		1	2.00	11.6		1	2.00	2.00
Trichlorofluoromethane	0.25	J	1	0.50	0.25	J	1	0.50	0.50
2-Propanol (IPA)	0.54	J	1	2.00	0.78	J	1	2.00	2.00
Acrylonitrile	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methylene Chloride (DCM)	0.17	J	1	1.00	0.09	J	1	1.00	1.00
TertButanol (TBA)	<SDL	ND	1	0.50	0.24	J	1	0.50	0.50
Allyl Chloride	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Carbon Disulfide	0.10	J	1	2.00	0.86	J	1	2.00	2.00
Trichlorotrifluoroethane	0.05	J	1	0.50	<SDL	ND	1	0.50	0.50
trans-1,2-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1-Dichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Vinyl Acetate	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
2-Butanone (MEK)	<SDL	ND	1	1.00	1.43		1	1.00	1.00
cis-1,2-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Hexane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chloroform	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethyl Acetate	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Tetrahydrofuran	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,1-Trichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Benzene	0.08	J	1	0.50	0.09	J	1	0.50	0.50
Carbon Tetrachloride	0.09	J	1	0.50	0.10	J	1	0.50	0.50
Cyclohexane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001803			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001791			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48417				231750-48418				
Date Sampled	07/29/2023				08/10/2023				
Date Analyzed	09/18/2023				09/18/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Bromodichloromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,4-Dioxane	<SDL	ND	1	2.00	<SDL	ND	1	2.00	2.00
Trichloroethene (TCE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
2,2,4-Trimethylpentane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methyl Methacrylate	0.09	J	1	0.50	<SDL	ND	1	0.50	0.50
Heptane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
cis-1,3-Dichloropropene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
trans-1,3-Dichloropropene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,2-Trichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Toluene	0.16	J	1	0.50	0.14	J	1	0.50	0.50
2-Hexanone (MBK)	<SDL	ND	1	2.00	<SDL	ND	1	2.00	2.00
Dibromochloromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dibromoethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Tetrachloroethene (PCE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
m & p-Xylene	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Bromoform	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Styrene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,2,2-Tetrachloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
o-Xylene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,3-Trichloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Isopropylbenzene (Cumene)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
α-Pinene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
2-Chlorotoluene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
n-Propylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
4-Ethyltoluene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,3,5-Trimethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
β-Pinene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,4-Trimethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Benzyl Chloride (a-Chlorotoluene)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,3-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,4-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Sec-ButylBenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
n-ButylBenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dibromo-3-Chloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,4-Trichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Naphthalene	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Hexachlorobutadiene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
BFB-Surrogate Std. % Recovery		109%				114%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001803			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001791			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48417				231750-48418				
Date Sampled	07/29/2023				08/10/2023				
Date Analyzed	09/18/2023				09/18/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	1.77	<SDL	ND	1	1.77	1.8
Propene	<SDL	ND	1	1.72	<SDL	ND	1	1.72	1.7
Dichlorodifluoromethane	2.27	J	1	2.47	2.62		1	2.47	2.5
Dimethyl Ether	<SDL	ND	1	0.94	<SDL	ND	1	0.94	0.9
Chloromethane	<SDL	ND	1	1.03	0.31	J	1	1.03	1.0
Dichlorotetrafluoroethane	<SDL	ND	1	3.50	<SDL	ND	1	3.50	3.5
Vinyl Chloride	<SDL	ND	1	1.28	<SDL	ND	1	1.28	1.3
Acetaldehyde	13.2		1	9.01	54.8		1	9.01	9.0
Methanol	11.0		1	6.55	14.3		1	6.55	6.6
1,3-Butadiene	<SDL	ND	1	1.11	<SDL	ND	1	1.11	1.1
Bromomethane	<SDL	ND	1	1.94	<SDL	ND	1	1.94	1.9
Chloroethane	<SDL	ND	1	1.32	<SDL	ND	1	1.32	1.3
Dichlorofluoromethane	<SDL	ND	1	2.10	<SDL	ND	1	2.10	2.1
Ethanol	5.52		1	3.77	<SDL	ND	1	3.77	3.8
Vinyl Bromide	<SDL	ND	1	2.19	<SDL	ND	1	2.19	2.2
Acrolein	1.05	J	1	2.29	3.83		1	2.29	2.3
Acetone	11.3		1	4.75	27.5		1	4.75	4.8
Trichlorofluoromethane	1.40	J	1	2.81	1.40	J	1	2.81	2.8
2-Propanol (IPA)	1.33	J	1	4.92	1.92	J	1	4.92	4.9
Acrylonitrile	<SDL	ND	1	1.09	<SDL	ND	1	1.09	1.1
1,1-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
Methylene Chloride (DCM)	0.59	J	1	3.47	0.31	J	1	3.47	3.5
TertButanol (TBA)	<SDL	ND	1	1.52	0.73	J	1	1.52	1.5
Allyl Chloride	<SDL	ND	1	3.13	<SDL	ND	1	3.13	3.1
Carbon Disulfide	0.31	J	1	6.23	2.68	J	1	6.23	6.2
Trichlorotrifluoroethane	0.38	J	1	3.83	<SDL	ND	1	3.83	3.8
trans-1,2-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
1,1-Dichloroethane	<SDL	ND	1	2.02	<SDL	ND	1	2.02	2.0
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	1.80	<SDL	ND	1	1.80	1.8
Vinyl Acetate	<SDL	ND	1	3.52	<SDL	ND	1	3.52	3.5
2-Butanone (MEK)	<SDL	ND	1	2.95	4.22		1	2.95	2.9
cis-1,2-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
Hexane	<SDL	ND	1	1.76	<SDL	ND	1	1.76	1.8
Chloroform	<SDL	ND	1	2.44	<SDL	ND	1	2.44	2.4
Ethyl Acetate	<SDL	ND	1	1.80	<SDL	ND	1	1.80	1.8
Tetrahydrofuran	<SDL	ND	1	1.47	<SDL	ND	1	1.47	1.5
1,2-Dichloroethane	<SDL	ND	1	2.02	<SDL	ND	1	2.02	2.0
1,1,1-Trichloroethane	<SDL	ND	1	2.73	<SDL	ND	1	2.73	2.7
Benzene	0.26	J	1	1.60	0.29	J	1	1.60	1.6
Carbon Tetrachloride	0.57	J	1	3.15	0.63	J	1	3.15	3.1
Cyclohexane	<SDL	ND	1	1.72	<SDL	ND	1	1.72	1.7

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001803			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001791			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48417				231750-48418				
Date Sampled	07/29/2023				08/10/2023				
Date Analyzed	09/18/2023				09/18/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	2.31	<SDL	ND	1	2.31	2.3
Bromodichloromethane	<SDL	ND	1	3.35	<SDL	ND	1	3.35	3.4
1,4-Dioxane	<SDL	ND	1	7.21	<SDL	ND	1	7.21	7.2
Trichloroethene (TCE)	<SDL	ND	1	2.69	<SDL	ND	1	2.69	2.7
2,2,4-Trimethylpentane	<SDL	ND	1	2.34	<SDL	ND	1	2.34	2.3
Methyl Methacrylate	0.37	J	1	2.05	<SDL	ND	1	2.05	2.0
Heptane	<SDL	ND	1	2.05	<SDL	ND	1	2.05	2.0
cis-1,3-Dichloropropene	<SDL	ND	1	2.27	<SDL	ND	1	2.27	2.3
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	4.10	<SDL	ND	1	4.10	4.1
trans-1,3-Dichloropropene	<SDL	ND	1	2.27	<SDL	ND	1	2.27	2.3
1,1,2-Trichloroethane	<SDL	ND	1	2.73	<SDL	ND	1	2.73	2.7
Toluene	0.60	J	1	1.88	0.53	J	1	1.88	1.9
2-Hexanone (MBK)	<SDL	ND	1	8.19	<SDL	ND	1	8.19	8.2
Dibromochloromethane	<SDL	ND	1	4.26	<SDL	ND	1	4.26	4.3
1,2-Dibromoethane	<SDL	ND	1	3.84	<SDL	ND	1	3.84	3.8
Tetrachloroethene (PCE)	<SDL	ND	1	3.39	<SDL	ND	1	3.39	3.4
Chlorobenzene	<SDL	ND	1	2.30	<SDL	ND	1	2.30	2.3
Ethylbenzene	<SDL	ND	1	2.17	<SDL	ND	1	2.17	2.2
m & p-Xylene	<SDL	ND	1	4.34	<SDL	ND	1	4.34	4.3
Bromoform	<SDL	ND	1	5.17	<SDL	ND	1	5.17	5.2
Styrene	<SDL	ND	1	2.13	<SDL	ND	1	2.13	2.1
1,1,2,2-Tetrachloroethane	<SDL	ND	1	3.43	<SDL	ND	1	3.43	3.4
o-Xylene	<SDL	ND	1	2.17	<SDL	ND	1	2.17	2.2
1,2,3-Trichloropropane	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
Isopropylbenzene (Cumene)	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
α-Pinene	<SDL	ND	1	2.79	<SDL	ND	1	2.79	2.8
2-Chlorotoluene	<SDL	ND	1	2.59	<SDL	ND	1	2.59	2.6
n-Propylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
4-Ethyltoluene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
1,3,5-Trimethylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
β-Pinene	<SDL	ND	1	2.79	<SDL	ND	1	2.79	2.8
1,2,4-Trimethylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
Benzyl Chloride (a-Chlorotoluene)	<SDL	ND	1	2.59	<SDL	ND	1	2.59	2.6
1,3-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
1,4-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
Sec-ButylBenzene	<SDL	ND	1	2.74	<SDL	ND	1	2.74	2.7
1,2-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
n-ButylBenzene	<SDL	ND	1	2.74	<SDL	ND	1	2.74	2.7
1,2-Dibromo-3-Chloropropane	<SDL	ND	1	4.83	<SDL	ND	1	4.83	4.8
1,2,4-Trichlorobenzene	<SDL	ND	1	3.71	<SDL	ND	1	3.71	3.7
Naphthalene	<SDL	ND	1	5.24	<SDL	ND	1	5.24	5.2
Hexachlorobutadiene	<SDL	ND	1	5.33	<SDL	ND	1	5.33	5.3
BFB-Surrogate Std. % Recovery		109%				114%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001728			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48419				
Date Sampled	08/16/2023				
Date Analyzed	09/18/2023				
Can Dilution Factor	1.00				
Compound	Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	0.50	0.50
Propene	<SDL	ND	1	1.00	1.00
Dichlorodifluoromethane	0.51		1	0.50	0.50
Dimethyl Ether	<SDL	ND	1	0.50	0.50
Chloromethane	<SDL	ND	1	0.50	0.50
Dichlorotetrafluoroethane	<SDL	ND	1	0.50	0.50
Vinyl Chloride	<SDL	ND	1	0.50	0.50
Acetaldehyde	18.1		1	5.00	5.00
Methanol	11.9		1	5.00	5.00
1,3-Butadiene	<SDL	ND	1	0.50	0.50
Bromomethane	<SDL	ND	1	0.50	0.50
Chloroethane	<SDL	ND	1	0.50	0.50
Dichlorofluoromethane	<SDL	ND	1	0.50	0.50
Ethanol	4.84		1	2.00	2.00
Vinyl Bromide	<SDL	ND	1	0.50	0.50
Acrolein	0.82	J	1	1.00	1.00
Acetone	11.3		1	2.00	2.00
Trichlorofluoromethane	0.23	J	1	0.50	0.50
2-Propanol (IPA)	0.60	J	1	2.00	2.00
Acrylonitrile	<SDL	ND	1	0.50	0.50
1,1-Dichloroethene	<SDL	ND	1	0.50	0.50
Methylene Chloride (DCM)	0.10	J	1	1.00	1.00
TertButanol (TBA)	<SDL	ND	1	0.50	0.50
Allyl Chloride	<SDL	ND	1	1.00	1.00
Carbon Disulfide	0.18	J	1	2.00	2.00
Trichlorotrifluoroethane	<SDL	ND	1	0.50	0.50
trans-1,2-Dichloroethene	<SDL	ND	1	0.50	0.50
1,1-Dichloroethane	<SDL	ND	1	0.50	0.50
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	0.50	0.50
Vinyl Acetate	<SDL	ND	1	1.00	1.00
2-Butanone (MEK)	1.13		1	1.00	1.00
cis-1,2-Dichloroethene	<SDL	ND	1	0.50	0.50
Hexane	<SDL	ND	1	0.50	0.50
Chloroform	<SDL	ND	1	0.50	0.50
Ethyl Acetate	0.11	J	1	0.50	0.50
Tetrahydrofuran	<SDL	ND	1	0.50	0.50
1,2-Dichloroethane	<SDL	ND	1	0.50	0.50
1,1,1-Trichloroethane	<SDL	ND	1	0.50	0.50
Benzene	0.11	J	1	0.50	0.50
Carbon Tetrachloride	0.10	J	1	0.50	0.50
Cyclohexane	<SDL	ND	1	0.50	0.50

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001728			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48419				
Date Sampled	08/16/2023				
Date Analyzed	09/18/2023				
Can Dilution Factor	1.00				
Compound	Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	0.50	0.50
Bromodichloromethane	<SDL	ND	1	0.50	0.50
1,4-Dioxane	<SDL	ND	1	2.00	2.00
Trichloroethene (TCE)	<SDL	ND	1	0.50	0.50
2,2,4-Trimethylpentane	<SDL	ND	1	0.50	0.50
Methyl Methacrylate	<SDL	ND	1	0.50	0.50
Heptane	<SDL	ND	1	0.50	0.50
cis-1,3-Dichloropropene	<SDL	ND	1	0.50	0.50
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	1.00	1.00
trans-1,3-Dichloropropene	<SDL	ND	1	0.50	0.50
1,1,2-Trichloroethane	<SDL	ND	1	0.50	0.50
Toluene	0.26	J	1	0.50	0.50
2-Hexanone (MBK)	<SDL	ND	1	2.00	2.00
Dibromochloromethane	<SDL	ND	1	0.50	0.50
1,2-Dibromoethane	<SDL	ND	1	0.50	0.50
Tetrachloroethene (PCE)	<SDL	ND	1	0.50	0.50
Chlorobenzene	<SDL	ND	1	0.50	0.50
Ethylbenzene	<SDL	ND	1	0.50	0.50
m & p-Xylene	0.05	J	1	1.00	1.00
Bromoform	<SDL	ND	1	0.50	0.50
Styrene	<SDL	ND	1	0.50	0.50
1,1,2,2-Tetrachloroethane	<SDL	ND	1	0.50	0.50
o-Xylene	<SDL	ND	1	0.50	0.50
1,2,3-Trichloropropane	<SDL	ND	1	0.50	0.50
Isopropylbenzene (Cumene)	<SDL	ND	1	0.50	0.50
α-Pinene	<SDL	ND	1	0.50	0.50
2-Chlorotoluene	<SDL	ND	1	0.50	0.50
n-Propylbenzene	<SDL	ND	1	0.50	0.50
4-Ethyltoluene	<SDL	ND	1	0.50	0.50
1,3,5-Trimethylbenzene	<SDL	ND	1	0.50	0.50
β-Pinene	<SDL	ND	1	0.50	0.50
1,2,4-Trimethylbenzene	<SDL	ND	1	0.50	0.50
Benzyl Chloride (a-Chlorotoluene)	<SDL	ND	1	0.50	0.50
1,3-Dichlorobenzene	<SDL	ND	1	0.50	0.50
1,4-Dichlorobenzene	<SDL	ND	1	0.50	0.50
Sec-ButylBenzene	<SDL	ND	1	0.50	0.50
1,2-Dichlorobenzene	<SDL	ND	1	0.50	0.50
n-ButylBenzene	<SDL	ND	1	0.50	0.50
1,2-Dibromo-3-Chloropropane	<SDL	ND	1	0.50	0.50
1,2,4-Trichlorobenzene	<SDL	ND	1	0.50	0.50
Naphthalene	<SDL	ND	1	1.00	1.00
Hexachlorobutadiene	<SDL	ND	1	0.50	0.50
BFB-Surrogate Std. % Recovery		104%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001728			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48419				
Date Sampled	08/16/2023				
Date Analyzed	09/18/2023				
Can Dilution Factor	1.00				
Compound	Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	1.77	1.8
Propene	<SDL	ND	1	1.72	1.7
Dichlorodifluoromethane	2.52		1	2.47	2.5
Dimethyl Ether	<SDL	ND	1	0.94	0.9
Chloromethane	<SDL	ND	1	1.03	1.0
Dichlorotetrafluoroethane	<SDL	ND	1	3.50	3.5
Vinyl Chloride	<SDL	ND	1	1.28	1.3
Acetaldehyde	32.6		1	9.01	9.0
Methanol	15.6		1	6.55	6.6
1,3-Butadiene	<SDL	ND	1	1.11	1.1
Bromomethane	<SDL	ND	1	1.94	1.9
Chloroethane	<SDL	ND	1	1.32	1.3
Dichlorofluoromethane	<SDL	ND	1	2.10	2.1
Ethanol	9.12		1	3.77	3.8
Vinyl Bromide	<SDL	ND	1	2.19	2.2
Acrolein	1.88	J	1	2.29	2.3
Acetone	26.8		1	4.75	4.8
Trichlorofluoromethane	1.29	J	1	2.81	2.8
2-Propanol (IPA)	1.47	J	1	4.92	4.9
Acrylonitrile	<SDL	ND	1	1.09	1.1
1,1-Dichloroethene	<SDL	ND	1	1.98	2.0
Methylene Chloride (DCM)	0.35	J	1	3.47	3.5
TertButanol (TBA)	<SDL	ND	1	1.52	1.5
Allyl Chloride	<SDL	ND	1	3.13	3.1
Carbon Disulfide	0.56	J	1	6.23	6.2
Trichlorotrifluoroethane	<SDL	ND	1	3.83	3.8
trans-1,2-Dichloroethene	<SDL	ND	1	1.98	2.0
1,1-Dichloroethane	<SDL	ND	1	2.02	2.0
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	1.80	1.8
Vinyl Acetate	<SDL	ND	1	3.52	3.5
2-Butanone (MEK)	3.33		1	2.95	2.9
cis-1,2-Dichloroethene	<SDL	ND	1	1.98	2.0
Hexane	<SDL	ND	1	1.76	1.8
Chloroform	<SDL	ND	1	2.44	2.4
Ethyl Acetate	0.40	J	1	1.80	1.8
Tetrahydrofuran	<SDL	ND	1	1.47	1.5
1,2-Dichloroethane	<SDL	ND	1	2.02	2.0
1,1,1-Trichloroethane	<SDL	ND	1	2.73	2.7
Benzene	0.35	J	1	1.60	1.6
Carbon Tetrachloride	0.63	J	1	3.15	3.1
Cyclohexane	<SDL	ND	1	1.72	1.7

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001728			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231750-48419				
Date Sampled	08/16/2023				
Date Analyzed	09/18/2023				
Can Dilution Factor	1.00				
Compound	Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	2.31	2.3
Bromodichloromethane	<SDL	ND	1	3.35	3.4
1,4-Dioxane	<SDL	ND	1	7.21	7.2
Trichloroethene (TCE)	<SDL	ND	1	2.69	2.7
2,2,4-Trimethylpentane	<SDL	ND	1	2.34	2.3
Methyl Methacrylate	<SDL	ND	1	2.05	2.0
Heptane	<SDL	ND	1	2.05	2.0
cis-1,3-Dichloropropene	<SDL	ND	1	2.27	2.3
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	4.10	4.1
trans-1,3-Dichloropropene	<SDL	ND	1	2.27	2.3
1,1,2-Trichloroethane	<SDL	ND	1	2.73	2.7
Toluene	0.98	J	1	1.88	1.9
2-Hexanone (MBK)	<SDL	ND	1	8.19	8.2
Dibromochloromethane	<SDL	ND	1	4.26	4.3
1,2-Dibromoethane	<SDL	ND	1	3.84	3.8
Tetrachloroethene (PCE)	<SDL	ND	1	3.39	3.4
Chlorobenzene	<SDL	ND	1	2.30	2.3
Ethylbenzene	<SDL	ND	1	2.17	2.2
m & p-Xylene	0.22	J	1	4.34	4.3
Bromoform	<SDL	ND	1	5.17	5.2
Styrene	<SDL	ND	1	2.13	2.1
1,1,2,2-Tetrachloroethane	<SDL	ND	1	3.43	3.4
o-Xylene	<SDL	ND	1	2.17	2.2
1,2,3-Trichloropropane	<SDL	ND	1	3.01	3.0
Isopropylbenzene (Cumene)	<SDL	ND	1	2.46	2.5
α-Pinene	<SDL	ND	1	2.79	2.8
2-Chlorotoluene	<SDL	ND	1	2.59	2.6
n-Propylbenzene	<SDL	ND	1	2.46	2.5
4-Ethyltoluene	<SDL	ND	1	2.46	2.5
1,3,5-Trimethylbenzene	<SDL	ND	1	2.46	2.5
β-Pinene	<SDL	ND	1	2.79	2.8
1,2,4-Trimethylbenzene	<SDL	ND	1	2.46	2.5
Benzyl Chloride (a-Chlorotoluene)	<SDL	1.04	1	2.59	2.6
1,3-Dichlorobenzene	<SDL	0.00	1	3.01	3.0
1,4-Dichlorobenzene	<SDL	0.00	1	3.01	3.0
Sec-ButylBenzene	<SDL	0.00	1	2.74	2.7
1,2-Dichlorobenzene	<SDL	0.00	1	3.01	3.0
n-ButylBenzene	<SDL	0.00	1	2.74	2.7
1,2-Dibromo-3-Chloropropane	<SDL	0.00	1	4.83	4.8
1,2,4-Trichlorobenzene	<SDL	0.00	1	3.71	3.7
Naphthalene	<SDL	Final	1	5.24	5.2
Hexachlorobutadiene	<SDL	Pressure	1	5.33	5.3
BFB-Surrogate Std. % Recovery		104%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001803		
AAC ID	231750-48417		
Date Sampled	07/29/2023		
Date Analyzed	09/18/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
Hexanal	0.77	1	53
BFB-Surrogate Std. % Recovery	109%		

Client ID	617Fern 001791		
AAC ID	231750-48418		
Date Sampled	08/10/2023		
Date Analyzed	09/18/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
Propanal	0.77	1	78
Butanal	2.51	1	58
Pentanal	1.02	1	59
Hexanal	1.78	1	64
BFB-Surrogate Std. % Recovery	114%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001803		
AAC ID	231750-48417		
Date Sampled	07/29/2023		
Date Analyzed	09/18/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
Hexanal	3.15	1	53
BFB-Surrogate Std. % Recovery	109%		

Client ID	617Fern 001791		
AAC ID	231750-48418		
Date Sampled	08/10/2023		
Date Analyzed	09/18/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
Propanal	1.83	1	78
Butanal	7.39	1	58
Pentanal	3.59	1	59
Hexanal	7.28	1	64
BFB-Surrogate Std. % Recovery	114%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001728		
AAC ID	231750-48419		
Date Sampled	08/16/2023		
Date Analyzed	09/18/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
Hexanal	0.93	1	64
BFB-Surrogate Std. % Recovery	104%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231750 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/05/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001728		
AAC ID	231750-48419		
Date Sampled	08/16/2023		
Date Analyzed	09/18/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
Hexanal	3.80	1	64
BFB-Surrogate Std. % Recovery	104%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/15/2023
MATRIX : High Purity N_2
UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-03
CALIBRATION STD ID : MS1-051623-01
ANALYST : MB

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Continuing Calibration Verification of the 07/17/2023 Calibration

Analyte Compounds	*Source*[1]	*CCV*[2]	*% Recovery*[3]
4-BFB (surrogate standard)	9.40	9.90	105
Chlorodifluoromethane	5.20	5.04	97
Propene	5.30	5.18	98
Dichlorodifluoromethane	5.20	5.32	102
Dimethyl Ether	5.10	4.60	90
Chloromethane	5.20	5.18	100
Dichlorotetrafluoroethane	5.15	5.45	106
Vinyl Chloride	5.25	5.18	99
Acetaldehyde	10.55	9.13	87
Methanol	9.40	6.67	71
1,3-Butadiene	5.30	5.27	99
Bromomethane	5.20	5.98	115
Chloroethane	5.15	4.87	95
Dichlorofluoromethane	5.10	5.18	102
Ethanol	5.60	5.05	90
Vinyl Bromide	5.05	5.44	108
Acrolein	5.55	5.16	93
Acetone	5.30	4.72	89
Trichlorofluoromethane	5.25	5.49	105
2-Propanol (IPA)	5.50	4.84	88
Acrylonitrile	5.60	5.05	90
1,1-Dichloroethene	5.20	5.33	103
Methylene Chloride (DCM)	5.25	5.16	98
TertButanol (TBA)	5.55	5.49	99
Allyl Chloride	5.10	4.79	94
Carbon Disulfide	5.25	5.24	100
Trichlorotrifluoroethane	5.20	5.20	100
trans-1,2-Dichloroethene	5.30	5.34	101
1,1-Dichloroethane	5.25	5.06	96
Methyl Tert Butyl Ether (MTBE)	5.25	5.01	95
Vinyl Acetate	5.50	5.31	97
2-Butanone (MEK)	5.30	5.06	95
cis-1,2-Dichloroethene	5.25	5.18	99
Hexane	5.35	5.69	106
Chloroform	5.30	5.36	101
Ethyl Acetate	5.30	4.72	89
Tetrahydrofuran	5.10	4.83	95
1,2-Dichloroethane	5.25	5.23	100
1,1,1-Trichloroethane	5.20	5.32	102
Benzene	5.30	5.25	99
Carbon Tetrachloride	5.10	6.11	120
Cyclohexane	5.25	5.49	105

Analyte Compounds (Continued)	*Source*[1]	*CCV*[2]	*% Recovery*[3]
1,2-Dichloropropane	5.25	5.10	97
Bromodichloromethane	5.20	5.52	106
1,4-Dioxane	5.20	6.21	119
Trichloroethene (TCE)	5.20	5.36	103
2,2,4-Trimethylpentane	5.00	4.88	98
Methyl Methacrylate	5.50	5.20	95
Heptane	5.25	4.98	95
cis-1,3-Dichloropropene	5.20	4.93	95
4-Methyl-2-pentanone (MiBK)	5.20	6.13	118
trans-1,3-Dichloropropene	5.25	5.23	100
1,1,2-Trichloroethane	5.25	5.37	102
Toluene	5.30	5.37	101
2-Hexanone (MBK)	5.25	6.29	120
Dibromochloromethane	5.15	5.84	113
1,2-Dibromoethane	5.30	5.73	108
Tetrachloroethene (PCE)	5.20	5.54	107
Chlorobenzene	5.30	5.03	95
Ethylbenzene	5.25	5.05	96
m & p-Xylene	10.50	9.94	95
Bromoform	5.25	5.50	105
Styrene	5.25	5.06	96
1,1,2,2-Tetrachloroethane	5.25	5.15	98
o-Xylene	5.25	5.05	96
1,2,3-Trichloropropane	5.50	5.04	92
Isopropylbenzene (Cumene)	5.15	5.00	97
α-Pinene	5.35	5.33	100
2-Chlorotoluene	5.15	4.77	93
n-Propylbenzene	5.05	4.84	96
4-Ethyltoluene	5.15	4.90	95
1,3,5-Trimethylbenzene	5.15	4.88	95
β-Pinene	5.50	5.77	105
1,2,4-Trimethylbenzene	5.15	4.89	95
Benzyl Chloride (a-Chlorotoluene)	5.20	4.41	85
1,3-Dichlorobenzene	5.20	5.00	96
1,4-Dichlorobenzene	5.15	4.90	95
Sec-ButylBenzene	5.05	4.85	96
1,2-Dichlorobenzene	5.30	5.14	97
n-ButylBenzene	5.10	4.69	92
1,2-Dibromo-3-Chloropropane	5.05	4.72	93
1,2,4-Trichlorobenzene	5.50	5.63	102
Naphthalene	5.75	5.79	101
Hexachlorobutadiene	5.50	5.37	98

[1] Concentration of analyte compound in certified source standard.
[2] Measured result from daily Continuing Calibration Verification (CCV).
[3] The acceptable range for analyte recovery is 100±30%.

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Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/15/2023
MATRIX : High Purity N_2
UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-03
CALIBRATION STD ID : MS1-051623-01
ANALYST : MB

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Laboratory Control Spike Analysis

System Monitoring Compounds	*Sample Concentration*	*Spike Added*	*LCS[1] Recovery*	*LCSD[1] Recovery*	*LCS[1] % Recovery[2]*	*LCSD[1] % Recovery[2]*	*RPD[3]*
4-BFB (surrogate standard)	0.0	9.40	9.90	10.19	105	108	2.9
1,1-Dichloroethene	0.0	5.20	5.33	5.32	103	102	0.2
Methylene Chloride (DCM)	0.0	5.25	5.16	5.00	98	95	3.1
Benzene	0.0	5.30	5.25	5.19	99	98	1.1
Trichloroethene (TCE)	0.0	5.20	5.36	5.42	103	104	1.1
Toluene	0.0	5.30	5.37	5.38	101	102	0.2
Tetrachloroethene (PCE)	0.0	5.20	5.54	5.69	107	109	2.7
Chlorobenzene	0.0	5.30	5.03	4.99	95	94	0.8
Ethylbenzene	0.0	5.25	5.05	5.17	96	98	2.3
m & p-Xylene	0.0	10.50	9.94	10.31	95	98	3.7
o-Xylene	0.0	5.25	5.05	5.17	96	98	2.3

[1] Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

[2] The acceptable range for analyte recovery is 100±30%.

[3] Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).

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Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/15/2023 | **INSTRUMENT ID : GC/MS-03**
MATRIX : High Purity He or N_2 | **ANALYST : MB**
UNITS : PPB (v/v)

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Method Blank Analysis

Analyte Compounds	*MB 091523*	*Reporting Limit (RL)*
4-BFB (surrogate standard)	105%	100±30%
Chlorodifluoromethane	<RL	0.5
Propene	<RL	1.0
Dichlorodifluoromethane	<RL	0.5
Dimethyl Ether	<RL	0.5
Chloromethane	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5
Vinyl Chloride	<RL	0.5
Acetaldehyde	<RL	5.0
Methanol	<RL	5.0
1,3-Butadiene	<RL	0.5
Bromomethane	<RL	0.5
Chloroethane	<RL	0.5
Dichlorofluoromethane	<RL	0.5
Ethanol	<RL	2.0
Vinyl Bromide	<RL	0.5
Acrolein	<RL	1.0
Acetone	<RL	2.0
Trichlorofluoromethane	<RL	0.5
2-Propanol (IPA)	<RL	2.0
Acrylonitrile	<RL	0.5
1,1-Dichloroethene	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0
TertButanol (TBA)	<RL	0.5
Allyl Chloride	<RL	1.0
Carbon Disulfide	<RL	2.0
Trichlorotrifluoroethane	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5
1,1-Dichloroethane	<RL	0.5
Methyl Tert Butyl Ether (MTBE)	<RL	0.5
Vinyl Acetate	<RL	1.0
2-Butanone (MEK)	<RL	1.0
cis-1,2-Dichloroethene	<RL	0.5
Hexane	<RL	0.5
Chloroform	<RL	0.5
Ethyl Acetate	<RL	0.5
Tetrahydrofuran	<RL	0.5
1,2-Dichloroethane	<RL	0.5
1,1,1-Trichloroethane	<RL	0.5
Benzene	<RL	0.5
Carbon Tetrachloride	<RL	0.5
Cyclohexane	<RL	0.5

Analyte Compounds (Continued)	*MB 091523*	*Reporting Limit (RL)*
1,2-Dichloropropane	<RL	0.5
Bromodichloromethane	<RL	0.5
1,4-Dioxane	<RL	2.0
Trichloroethene (TCE)	<RL	0.5
2,2,4-Trimethylpentane	<RL	0.5
Methyl Methacrylate	<RL	0.5
Heptane	<RL	0.5
cis-1,3-Dichloropropene	<RL	0.5
4-Methyl-2-pentanone (MiBK)	<RL	1.0
trans-1,3-Dichloropropene	<RL	0.5
1,1,2-Trichloroethane	<RL	0.5
Toluene	<RL	0.5
2-Hexanone (MBK)	<RL	2.0
Dibromochloromethane	<RL	0.5
1,2-Dibromoethane	<RL	0.5
Tetrachloroethene (PCE)	<RL	0.5
Chlorobenzene	<RL	0.5
Ethylbenzene	<RL	0.5
m & p-Xylene	<RL	1.0
Bromoform	<RL	0.5
Styrene	<RL	0.5
1,1,2,2-Tetrachloroethane	<RL	0.5
o-Xylene	<RL	0.5
1,2,3-Trichloropropane	<RL	0.5
Isopropylbenzene (Cumene)	<RL	0.5
α-Pinene	<RL	0.5
2-Chlorotoluene	<RL	0.5
n-Propylbenzene	<RL	0.5
4-Ethyltoluene	<RL	0.5
1,3,5-Trimethylbenzene	<RL	0.5
β-Pinene	<RL	0.5
1,2,4-Trimethylbenzene	<RL	0.5
Benzyl Chloride (a-Chlorotoluene)	<RL	0.5
1,3-Dichlorobenzene	<RL	0.5
1,4-Dichlorobenzene	<RL	0.5
Sec-ButylBenzene	<RL	0.5
1,2-Dichlorobenzene	<RL	0.5
n-ButylBenzene	<RL	0.5
1,2-Dibromo-3-Chloropropane	<RL	0.5
1,2,4-Trichlorobenzene	<RL	0.5
Naphthalene	<RL	1.0
Hexachlorobutadiene	<RL	0.5

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Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/15/2023
MATRIX : Air
UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-03
ANALYST : MB
DILUTION FACTOR[1] : x2

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: 231831-48770

Analyte Compounds		*Sample*	*Duplicate*	*RPD[2]*
4-BFB (surrogate standard)		10.1	10.3	2.6
Chlorodifluoromethane		<SRL	<SRL	*NA*
Propene	E	174	181	3.9
Dichlorodifluoromethane		<SRL	<SRL	*NA*
Dimethyl Ether		<SRL	<SRL	*NA*
Chloromethane		<SRL	<SRL	*NA*
Dichlorotetrafluoroethane		<SRL	<SRL	*NA*
Vinyl Chloride		<SRL	<SRL	*NA*
Acetaldehyde		<SRL	<SRL	*NA*
Methanol		<SRL	<SRL	*NA*
1,3-Butadiene		<SRL	<SRL	*NA*
Bromomethane		<SRL	<SRL	*NA*
Chloroethane		<SRL	<SRL	*NA*
Dichlorofluoromethane		<SRL	<SRL	*NA*
Ethanol	J	3.86	4.00	3.6
Vinyl Bromide		<SRL	<SRL	*NA*
Acrolein		<SRL	<SRL	*NA*
Acetone	J	2.48	2.90	15.6
Trichlorofluoromethane		<SRL	<SRL	*NA*
2-Propanol (IPA)		<SRL	<SRL	*NA*
Acrylonitrile		<SRL	<SRL	*NA*
1,1-Dichloroethene		<SRL	<SRL	*NA*
Methylene Chloride (DCM)		4.94	4.86	1.6
TertButanol (TBA)		<SRL	<SRL	*NA*
Allyl Chloride		<SRL	<SRL	*NA*
Carbon Disulfide		4.62	4.92	6.3
Trichlorotrifluoroethane		<SRL	<SRL	*NA*
trans-1,2-Dichloroethene		<SRL	<SRL	*NA*
1,1-Dichloroethane		<SRL	<SRL	*NA*
Methyl Tert Butyl Ether (MTBE)		<SRL	<SRL	*NA*
Vinyl Acetate		<SRL	<SRL	*NA*
2-Butanone (MEK)		<SRL	<SRL	*NA*
cis-1,2-Dichloroethene		<SRL	<SRL	*NA*
Hexane		<SRL	<SRL	*NA*
Chloroform		<SRL	<SRL	*NA*
Ethyl Acetate		<SRL	<SRL	*NA*
Tetrahydrofuran		<SRL	<SRL	*NA*
1,2-Dichloroethane		<SRL	<SRL	*NA*
1,1,1-Trichloroethane		<SRL	<SRL	*NA*
Benzene		<SRL	<SRL	*NA*
Carbon Tetrachloride		<SRL	<SRL	*NA*
Cyclohexane		<SRL	<SRL	*NA*

Analyte Compounds (Continued)	*Sample*	*Duplicate*	*RPD[2]*
1,2-Dichloropropane	<SRL	<SRL	*NA*
Bromodichloromethane	<SRL	<SRL	*NA*
1,4-Dioxane	<SRL	<SRL	*NA*
Trichloroethene (TCE)	<SRL	<SRL	*NA*
2,2,4-Trimethylpentane	<SRL	<SRL	*NA*
Methyl Methacrylate	<SRL	<SRL	*NA*
Heptane	<SRL	<SRL	*NA*
cis-1,3-Dichloropropene	<SRL	<SRL	*NA*
4-Methyl-2-pentanone (MiBK)	<SRL	<SRL	*NA*
trans-1,3-Dichloropropene	<SRL	<SRL	*NA*
1,1,2-Trichloroethane	<SRL	<SRL	*NA*
Toluene	66.2	68.0	2.7
2-Hexanone (MBK)	<SRL	<SRL	*NA*
Dibromochloromethane	<SRL	<SRL	*NA*
1,2-Dibromoethane	<SRL	<SRL	*NA*
Tetrachloroethene (PCE)	<SRL	<SRL	*NA*
Chlorobenzene	<SRL	<SRL	*NA*
Ethylbenzene	<SRL	<SRL	*NA*
m & p-Xylene	<SRL	<SRL	*NA*
Bromoform	<SRL	<SRL	*NA*
Styrene	<SRL	<SRL	*NA*
1,1,2,2-Tetrachloroethane	<SRL	<SRL	*NA*
o-Xylene	<SRL	<SRL	*NA*
1,2,3-Trichloropropane	<SRL	<SRL	*NA*
Isopropylbenzene (Cumene)	<SRL	<SRL	*NA*
α-Pinene	<SRL	<SRL	*NA*
2-Chlorotoluene	<SRL	<SRL	*NA*
n-Propylbenzene	<SRL	<SRL	*NA*
4-Ethyltoluene	<SRL	<SRL	*NA*
1,3,5-Trimethylbenzene	<SRL	<SRL	*NA*
β-Pinene	<SRL	<SRL	*NA*
1,2,4-Trimethylbenzene	<SRL	<SRL	*NA*
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	*NA*
1,3-Dichlorobenzene	<SRL	<SRL	*NA*
1,4-Dichlorobenzene	<SRL	<SRL	*NA*
Sec-ButylBenzene	<SRL	<SRL	*NA*
1,2-Dichlorobenzene	<SRL	<SRL	*NA*
n-ButylBenzene	<SRL	<SRL	*NA*
1,2-Dibromo-3-Chloropropane	<SRL	<SRL	*NA*
1,2,4-Trichlorobenzene	<SRL	<SRL	*NA*
Naphthalene	<SRL	<SRL	*NA*
Hexachlorobutadiene	<SRL	<SRL	*NA*

[1] Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

[2] Relative Percent Difference (RPD) between Sample analysis and Duplicate analysis (acceptable range is <25%).

SRL - Sample Reporting Limit (minimum)

E - Estimated value above the calibration range.

J - Estimated value between the detection limit and the minimum reporting limit, shown for duplication purposes only.

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AAC Project No. _____ Page __1__ of __1__

231750

CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

Client Name: Sacramento Metropolitan AQMD
Project Name: AB617 VOC Analysis
Project Mgr (Print Name): Levi Ford
Project Number: Contract 2023-00000016
Sampler's Name (Print Name): Gabriela Rico
Sampler's Signature:

Analysis Requested

AAC Sample No.	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description	Type/No. of Containers	TO-15 extended list	TIC	PAMS C2-C12			
001803	7/29/23	00:00-24:00	VOC	48417 617Fern	Silonite 1	X	X	X			
001791	8/10/23	00:00-24:00	VOC	48418 617Fern	Silonite 1	X	X	X			
001728	8/16/23	00:00-24:00	VOC	48419 617Fern	Silonite 1	X	X	X			
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						

Send report:
Attn: Levi Ford
Phone#: 916-307-0505

Send invoice to:
Attn: Acct Payable
P.O. # Cite contract #

Turnaround Time
24 - 48 Hr ____ 72 Hr ____
5 Day ____ Normal __X__

Special Instructions/remarks:

Relinquished by (Signature):
Print Name: G.Rico
08/30/23 10:00
9/5/23 1347
Received by (signature):
Print Name

FX Yk cons (lk void)