



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr. Diamond Bar, CA 91765-4182

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

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To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1829046-01

Requested By Kraig Morris

Rule No. R402

Sampling Location

HB Fire Station #5
530 Lake St.
Huntington Beach, CA 92648

ST No. NA

Report Created 11/16/2018

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

See attached results and sample information.

Reviewed By:

Stephen Dutz
Principal A.Q. Chemist
Laboratory Services

Date Reviewed:

11/16/18

Approved By:

Aaron Katzenstein, Ph.D.
Senior Manager
Laboratory Services
(909) 396-2219

Date Approved:

11/16/2018



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Laboratory No. 1829046-01
 Sample Description SUMMA Canister 54575

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Total NMOC, ppbC	2800	1.6	4.8	100-700
Total Calibrated, ppbC	2700	1.6	4.8	
Ethane (FID), ppbv	47	0.8	2.4	
Ethylene (FID), ppbv	3.1	0.8	2.4	0.7-4.1
Acetylene (FID), ppbv	2.6	0.8	2.4	
Propane (FID), ppbv	180	0.5	1.6	0.4-5.0
Propylene (FID), ppbv	0.7	0.5	1.6	0.2-0.7
Isobutane (FID), ppbv	61	0.4	1.2	0.2-0.9
n-Butane (FID), ppbv	170	0.4	1.2	0.3-1.7
1-Butene (FID), ppbv	0.7	0.4	1.2	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.4	1.2	
cis-2-Butene (FID), ppbv	ND	0.4	1.2	
Isopentane (FID), ppbv	59	0.3	1.0	
1-Pentene (FID), ppbv	ND	0.3	1.0	
n-Pentane (FID), ppbv	65	0.3	1.0	0.1-0.6
Isoprene (FID), ppbv	0.4	0.3	1.0	
trans-2-Pentene (FID), ppbv	ND	0.3	1.0	
cis-2-Pentene (FID), ppbv	ND	0.3	1.0	
2,2-Dimethylbutane (FID), ppbv	0.8	0.3	0.8	
Cyclopentane (FID), ppbv	2.6	0.3	1.0	
2,3-Dimethylbutane (FID), ppbv	2.0	0.3	0.8	
2-Methylpentane (FID), ppbv	13	0.3	0.8	
3-Methylpentane (FID), ppbv	7.9	0.3	0.8	
1-Hexene (FID), ppbv	ND	0.3	0.8	<0.1-0.1
n-Hexane (FID), ppbv	19	0.3	0.8	0.1-0.2
Methylcyclopentane (FID), ppbv	3.8	0.3	0.8	
2,4-Dimethylpentane (FID), ppbv	0.6	0.2	0.7	
Benzene (FID), ppbv	2.0	0.3	0.8	0.1-0.5
Cyclohexane (FID), ppbv	2.2	0.3	0.8	
2-Methylhexane (FID), ppbv	2.5	0.2	0.7	
2,3-Dimethylpentane (FID), ppbv	1.0	0.2	0.7	
3-Methylhexane (FID), ppbv	2.6	0.2	0.7	
2,2,4-Trimethylpentane (FID), ppbv	0.8	0.2	0.6	
n-Heptane (FID), ppbv	5.6	0.2	0.7	0.1-0.2



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Laboratory No. 1829046-01 - continued
 Sample Description. SUMMA Canister 54575

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Methylcyclohexane (FID), ppbv	1.9	0.2	0.7	
2,3,4-Trimethylpentane (FID), ppbv	0.2	0.2	0.6	
Toluene (FID), ppbv	2.2	0.2	0.7	0.1-0.6
2-Methylheptane (FID), ppbv	0.9	0.2	0.6	
3-Methylheptane (FID), ppbv	0.6	0.2	0.6	
n-Octane (FID), ppbv	1.6	0.2	0.6	<0.1-0.3
Ethylbenzene (FID), ppbv	0.2	0.2	0.6	0.1-0.2
m+p-Xylene (FID), ppbv	0.8	0.2	0.6	0.1-0.2
Styrene (FID), ppbv	ND	0.2	0.6	<0.1-0.2
o-Xylene (FID), ppbv	0.3	0.2	0.6	0.1-0.2
n-Nonane (FID), ppbv	0.4	0.2	0.5	<0.1-0.1
Isopropylbenzene (FID), ppbv	ND	0.2	0.5	
n-Propylbenzene (FID), ppbv	ND	0.2	0.5	
m-Ethyltoluene (FID), ppbv	ND	0.2	0.5	
p-Ethyltoluene (FID), ppbv	ND	0.2	0.5	
1,3,5-Trimethylbenzene (FID), ppbv	ND	0.2	0.5	
o-Ethyltoluene (FID), ppbv	ND	0.2	0.5	
1,2,4-Trimethylbenzene (FID), ppbv	ND	0.2	0.5	
n-Decane (FID), ppbv	ND	0.2	0.5	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	ND	0.2	0.5	
m-Diethylbenzene (FID), ppbv	ND	0.2	0.5	
p-Diethylbenzene (FID), ppbv	ND	0.2	0.5	
n-Undecane (FID), ppbv	ND	0.1	0.4	<0.1
n-Dodecane (FID), ppbv	0.2	0.1	0.4	<0.1

Qualifiers

ND = Non-detect

J = Value is between method detection and reporting limits.

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

- DISTRICT INFORMATION
 INVOICE SOURCE
 LAP AUDIT

LABORATORY NO 1829046

TO: SCAQMD LAB: OTHER:
 SOURCE NAME: HB Fire Station #5 I.D. No. _____
 Source Address: 530 Lake st. City: Huntington Beach
 Mailing Address: Same City: _____ Zip: 92648
 Contact Person: Andrew Merritt Title: Firefighter Tel: (714)536-5474

Analysis Requested by: Kraig Morris Date: 10/17/18
 Approved by: FRED GONZALEZ Office: C&E Budget #: 60375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other

Sample Collected by: Andrew Merritt Date: 10/16/18 Time: 1414

SAMPLE DESCRIPTION:

petroleum, natural gas odor. 3 out of 5.
 Sample was collected in parking lot at
 530 Lake st. (HB Fire station #5).
 Wind were 2-3 mph out of West.

REQUESTED ANALYSIS:

VOC Analysis
 CAN ID # 54575

Relinquished by	Received by	Firm/Agency	Date	Time
Andrew Merritt	Kraig Morris	SCAQMD	10/16/18	1630
Kraig Morris	Jiliana Garcia	SCAQMD Lab	10/17/18	0733

Remarks: