



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 4)

To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1822710-01
Requested By Kraig Morris
Rule No. R402
ST No. NA
Report Created 10/04/2018

Sampling Location

Huntington Beach Fire Station #6
18591 Edward St
Huntington Beach, CA 92648

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:

10/04/18

Approved By:

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

Date Approved:

10/5/18



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Laboratory No. 1822710-01
 Sample Description SUMMA Canister 54510
 Sample Comments Natural Gas type odor. Taken for HB fire station #6
 Sample Date 08/14/2018 Received Date 08/15/2018 Analyzed Date 08/17/2018

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	530	0.1	0.3	100-700
Total Calibrated, ppbC	450	0.1	0.3	
Ethane (FID), ppbv	4.7	0.05	0.2	
Ethylene (FID), ppbv	<i>J (0.08)</i>	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	<i>J (0.05)</i>	0.05	0.2	
Propane (FID), ppbv	29	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	<i>J (0.04)</i>	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	11	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	35	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	0.1	0.02	0.08	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.02	0.08	
cis-2-Butene (FID), ppbv	ND	0.02	0.08	
Isopentane (FID), ppbv	13	0.02	0.06	
1-Pentene (FID), ppbv	ND	0.02	0.06	
n-Pentane (FID), ppbv	15	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	<i>J (0.04)</i>	0.02	0.06	
trans-2-Pentene (FID), ppbv	ND	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	0.1	0.02	0.05	
Cyclopentane (FID), ppbv	0.6	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	0.4	0.02	0.05	
2-Methylpentane (FID), ppbv	2.8	0.02	0.05	
3-Methylpentane (FID), ppbv	1.6	0.02	0.05	
1-Hexene (FID), ppbv	ND	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	4.3	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	0.7	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	0.08	0.01	0.04	
Benzene (FID), ppbv	0.4	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	0.4	0.02	0.05	
2-Methylhexane (FID), ppbv	0.2	0.01	0.04	
2,3-Dimethylpentane (FID), ppbv	0.5	0.01	0.04	



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Laboratory No. 1822710-01 - continued
 Sample Description SUMMA Canister 54510
 Sample Comments Natural Gas type odor. Taken for HB fire station #6
 Sample Date 08/14/2018 Received Date 08/15/2018 Analyzed Date 08/17/2018

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>
3-Methylhexane (FID), ppbv	0.5	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	0.1	0.01	0.04	
n-Heptane (FID), ppbv	1.2	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	0.3	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	ND	0.01	0.04	
Toluene (FID), ppbv	0.3	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	0.2	0.01	0.04	
3-Methylheptane (FID), ppbv	0.1	0.01	0.04	
n-Octane (FID), ppbv	0.3	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	0.05	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	0.1	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	ND	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	J (0.03)	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	0.08	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	ND	0.01	0.03	
n-Propylbenzene (FID), ppbv	ND	0.01	0.03	
m-Ethyltoluene (FID), ppbv	J (0.01)	0.01	0.03	
p-Ethyltoluene (FID), ppbv	ND	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	ND	0.01	0.03	
o-Ethyltoluene (FID), ppbv	ND	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
n-Decane (FID), ppbv	J (0.03)	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	ND	0.01	0.03	
m-Diethylbenzene (FID), ppbv	ND	0.01	0.03	
p-Diethylbenzene (FID), ppbv	ND	0.01	0.03	
n-Undecane (FID), ppbv	J (0.009)	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	ND	0.008	0.02	<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. 1922710
1922709-IG

TO: SCAQMD LAB: OTHER:
 SOURCE NAME: Huntington Beach Fire station #6 I.D. No. _____
 Source Address: 18591 Edward St. City: Huntington Beach
 Mailing Address: 18591 Edward St. City: Huntington Beach Zip: 92648
 Contact Person: Michael Diamond Title: Abulance operator Tel: (714)375-8400

Analysis Requested by: Kraig Morris Date: 8/15/18
 Approved by: Fred Egef Office: C/E Budget #: 60375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other

Sample Collected by: Michael Diamond Date: 8/14/18 Time: 1630

SAMPLE DESCRIPTION:

Report of natural gas type odor with an intensity of 4 out of 5. Sample was collected in parking lot area of HB Fire station #6 located at 18591 Edward St. in Huntington Beach. Wind was from SW.

REQUESTED ANALYSIS:

VOC ANALYSIS
 Sample can ID # 54510

Relinquished by	Received by	Firm/Agency	Date	Time
Michael Diamond	Kraig Morris	SCAQMD	8/14/18	2040
Kraig Morris	Jiliana Garcia	SCAQMD LAB	8/15/18	09150

Remarks: