



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 3)

To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1813801-01
Requested By Kraig Morris
Rule No. R402
ST No. NA
Report Created 08/23/2018

Sampling Location

Long Beach Fire Station #14
5611 1/2 E. 2nd Street
Long Beach, CA 90803

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:

08/24/18

Approved By:

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

Date Approved:

8/24/18



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Laboratory No. 1813801-01
Sample Description SUMMA Canister 54563, SUMMA canister
Sample Comments Odor smelled like natural gas/mercaptan with an intensity of 3 to 4 out of 5. Wind was from SW direction.
Sample Date 05/17/2018 **Received Date** 05/18/2018 **Analyzed Date** 06/02/2018

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	2600	0.4	1.2	100-700
Total Calibrated, ppbC	2400	0.4	1.2	
Ethane (FID), ppbv	93	0.2	0.6	
Ethylene (FID), ppbv	1.1	0.2	0.6	0.7-4.1
Acetylene (FID), ppbv	0.9	0.2	0.6	
Propane (FID), ppbv	230	0.1	0.4	0.4-5.0
Propylene (FID), ppbv	0.4	0.1	0.4	0.2-0.7
Isobutane (FID), ppbv	46	0.1	0.3	0.2-0.9
n-Butane (FID), ppbv	150	0.1	0.3	0.3-1.7
1-Butene (FID), ppbv	0.2	0.1	0.3	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.1	0.3	
cis-2-Butene (FID), ppbv	ND	0.1	0.3	
Isopentane (FID), ppbv	45	0.08	0.2	
1-Pentene (FID), ppbv	ND	0.08	0.2	
n-Pentane (FID), ppbv	50	0.08	0.2	0.1-0.6
Isoprene (FID), ppbv	0.2	0.08	0.2	
trans-2-Pentene (FID), ppbv	ND	0.08	0.2	
cis-2-Pentene (FID), ppbv	ND	0.08	0.2	
2,2-Dimethylbutane (FID), ppbv	0.3	0.07	0.2	
Cyclopentane (FID), ppbv	1.6	0.08	0.2	
2,3-Dimethylbutane (FID), ppbv	1.4	0.07	0.2	
2-Methylpentane (FID), ppbv	8.6	0.07	0.2	
3-Methylpentane (FID), ppbv	6.0	0.07	0.2	
1-Hexene (FID), ppbv	ND	0.07	0.2	<0.1-0.1
n-Hexane (FID), ppbv	13	0.07	0.2	0.1-0.2
Methylcyclopentane (FID), ppbv	2.0	0.07	0.2	
2,4-Dimethylpentane (FID), ppbv	0.3	0.06	0.2	
Benzene (FID), ppbv	0.7	0.07	0.2	0.1-0.5
Cyclohexane (FID), ppbv	1.0	0.07	0.2	
2-Methylhexane (FID), ppbv	0.7	0.06	0.2	



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Laboratory No. 1813801-01 - continued
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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>
2,3-Dimethylpentane (FID), ppbv	1.5	0.06	0.2	
3-Methylhexane (FID), ppbv	1.8	0.06	0.2	
2,2,4-Trimethylpentane (FID), ppbv	0.5	0.05	0.2	
n-Heptane (FID), ppbv	3.5	0.06	0.2	0.1-0.2
Methylcyclohexane (FID), ppbv	0.9	0.06	0.2	
2,3,4-Trimethylpentane (FID), ppbv	0.09	0.05	0.2	
Toluene (FID), ppbv	0.8	0.06	0.2	0.1-0.6
2-Methylheptane (FID), ppbv	0.5	0.05	0.2	
3-Methylheptane (FID), ppbv	0.3	0.05	0.2	
n-Octane (FID), ppbv	0.9	0.05	0.2	<0.1-0.3
Ethylbenzene (FID), ppbv	0.1	0.05	0.2	0.1-0.2
m+p-Xylene (FID), ppbv	0.4	0.05	0.2	0.1-0.2
Styrene (FID), ppbv	ND	0.05	0.2	<0.1-0.2
o-Xylene (FID), ppbv	0.1	0.05	0.2	0.1-0.2
n-Nonane (FID), ppbv	0.2	0.04	0.1	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.04	0.04	0.1	
n-Propylbenzene (FID), ppbv	ND	0.04	0.1	
m-Ethyltoluene (FID), ppbv	0.06	0.04	0.1	
p-Ethyltoluene (FID), ppbv	ND	0.04	0.1	
1,3,5-Trimethylbenzene (FID), ppbv	0.04	0.04	0.1	
o-Ethyltoluene (FID), ppbv	ND	0.04	0.1	
1,2,4-Trimethylbenzene (FID), ppbv	0.06	0.04	0.1	
n-Decane (FID), ppbv	0.06	0.04	0.1	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	ND	0.04	0.1	
m-Diethylbenzene (FID), ppbv	ND	0.04	0.1	
p-Diethylbenzene (FID), ppbv	ND	0.04	0.1	
n-Undecane (FID), ppbv	ND	0.04	0.1	<0.1
n-Dodecane (FID), ppbv	ND	0.03	0.1	<0.1

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

DISTRICT
 INVOICE
 LAP AU
LABORATORY

1813801



TO: SCAQMD LAB: OTHER:

SOURCE NAME: Long Beach Fire Station #14 I.D. No. _____

Source Address: 5611 1/2 E. 2nd St. City: Long Beach

Mailing Address: 5200 Eliot Street City: Long Beach Zip: 90803

Contact Person: JAMES OWEN Title: FIRE CAPT. Tel: (562) 570-1214

Analysis Requested by: Kraig Morris Date: 5/18/18

Approved by: [Signature] Office: C&E Budget #: 60375

REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill

Suspected Violation Rule(s) 402 Other

Sample Collected by: JAMES OWEN Date: 5/17/18 Time: 1632

SAMPLE DESCRIPTION: Sample collected at 5611 1/2 E. 2nd st. in Long Beach. odor smelled like natural gas/mercaptan with an intensity of 3 to 4 out of 5. Wind was from SW direction.

3 to 4 out of 5

REQUESTED ANALYSIS:

VOC Analysis
ID# 54563

Relinquished by	Received by	Firm/Agency	Date	Time
<u>[Signature]</u>	<u>Kraig Morris</u>	<u>SCAQMD</u>	<u>5/18/18</u>	<u>0725</u>
<u>Kraig Morris</u>	<u>Kim de Leon</u>	<u>SCAQMD</u>	<u>5/18/18</u>	<u>0920</u>

Remarks: