



**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.** 1820070-01  
**Requested By** Kraig Morris  
**Rule No.** R402  
**ST No.** NA  
**Report Created** 08/24/2018

**Sampling Location**

Seal Beach Fire Station #44  
718 Central Ave  
Seal Beach, CA 90740

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**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. 1820070-01

Sample Description SUMMA Canister 54659

Sample Date 07/18/2018

Received Date 07/19/2018

Analyzed Date 07/24/2018

**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	14000	0.5	1.6	100-700
Total Calibrated, ppbC	14000	0.5	1.6	
Ethane (FID), ppbv	530	0.3	0.8	
Ethylene (FID), ppbv	1.4	0.3	0.8	0.7-4.1
Acetylene (FID), ppbv	2.0	0.3	0.8	
Propane (FID), ppbv	1300	0.2	0.5	0.4-5.0
Propylene (FID), ppbv	0.4	0.2	0.5	0.2-0.7
Isobutane (FID), ppbv	270	0.1	0.4	0.2-0.9
n-Butane (FID), ppbv	870	0.1	0.4	0.3-1.7
1-Butene (FID), ppbv	1.7	0.1	0.4	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.1	0.4	
cis-2-Butene (FID), ppbv	ND	0.1	0.4	
Isopentane (FID), ppbv	270	0.1	0.3	
1-Pentene (FID), ppbv	ND	0.1	0.3	
n-Pentane (FID), ppbv	310	0.1	0.3	0.1-0.6
Isoprene (FID), ppbv	ND	0.1	0.3	
trans-2-Pentene (FID), ppbv	0.1	0.1	0.3	
cis-2-Pentene (FID), ppbv	ND	0.1	0.3	
2,2-Dimethylbutane (FID), ppbv	2.0	0.09	0.3	
Cyclopentane (FID), ppbv	9.8	0.1	0.3	
2,3-Dimethylbutane (FID), ppbv	10	0.09	0.3	
2-Methylpentane (FID), ppbv	56	0.09	0.3	
3-Methylpentane (FID), ppbv	44	0.09	0.3	
1-Hexene (FID), ppbv	ND	0.09	0.3	<0.1-0.1
n-Hexane (FID), ppbv	86	0.09	0.3	0.1-0.2
Methylcyclopentane (FID), ppbv	13	0.09	0.3	
2,4-Dimethylpentane (FID), ppbv	1.8	0.08	0.2	
Benzene (FID), ppbv	3.7	0.09	0.3	0.1-0.5
Cyclohexane (FID), ppbv	6.7	0.09	0.3	
2-Methylhexane (FID), ppbv	4.2	0.08	0.2	
2,3-Dimethylpentane (FID), ppbv	9.6	0.08	0.2	
3-Methylhexane (FID), ppbv	12	0.08	0.2	



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Laboratory No. 1820070-01 - continued

Sample Description SUMMA Canister 54659

Sample Date 07/18/2018

Received Date 07/19/2018

Analyzed Date 07/24/2018

**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>
2,2,4-Trimethylpentane (FID), ppbv	2.6	0.07	0.2	
n-Heptane (FID), ppbv	22	0.08	0.2	0.1-0.2
Methylcyclohexane (FID), ppbv	5.5	0.08	0.2	
2,3,4-Trimethylpentane (FID), ppbv	0.3	0.07	0.2	
Toluene (FID), ppbv	4.1	0.08	0.2	0.1-0.6
2-Methylheptane (FID), ppbv	3.1	0.07	0.2	
3-Methylheptane (FID), ppbv	2.3	0.07	0.2	
n-Octane (FID), ppbv	5.2	0.07	0.2	<0.1-0.3
Ethylbenzene (FID), ppbv	0.5	0.07	0.2	0.1-0.2
m+p-Xylene (FID), ppbv	2.0	0.07	0.2	0.1-0.2
Styrene (FID), ppbv	ND	0.07	0.2	<0.1-0.2
o-Xylene (FID), ppbv	0.5	0.07	0.2	0.1-0.2
n-Nonane (FID), ppbv	1.2	0.06	0.2	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.07	0.06	0.2	
n-Propylbenzene (FID), ppbv	ND	0.06	0.2	
m-Ethyltoluene (FID), ppbv	0.2	0.06	0.2	
p-Ethyltoluene (FID), ppbv	0.07	0.06	0.2	
1,3,5-Trimethylbenzene (FID), ppbv	0.08	0.06	0.2	
o-Ethyltoluene (FID), ppbv	0.08	0.06	0.2	
1,2,4-Trimethylbenzene (FID), ppbv	0.1	0.06	0.2	
n-Decane (FID), ppbv	0.2	0.05	0.2	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	0.06	0.06	0.2	
m-Diethylbenzene (FID), ppbv	ND	0.05	0.2	
p-Diethylbenzene (FID), ppbv	ND	0.05	0.2	
n-Undecane (FID), ppbv	ND	0.05	0.1	<0.1
n-Dodecane (FID), ppbv	ND	0.04	0.1	<0.1

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

- DISTRICT INFORMATION
- INVOICE SOURCE
- LAP AUDIT

LABORATORY NO 1820070

TO: SCAQMD LAB:  OTHER:

SOURCE NAME: Seal Beach Fire Station #44 I.D. No. \_\_\_\_\_

Source Address: 718 Central Ave. City: Seal Beach

Mailing Address: 718 Central Ave City: Seal Beach Zip: 90740

Contact Person: Kevin Kron Title: Firefighter Tel: (562)431-0648

Analysis Requested by: Kendy Morris Date: 7/19/18

Approved by: FRED GONZALEZ Office: CPE Budget #: 60375

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

Suspected Violation Rule(s) 402 Other  to

Sample Collected by: Kevin Kron Date: 7/18/18 Time: 0844

**SAMPLE DESCRIPTION:**

Sample collected in parking lot of Seal Beach Fire Station #44 located at 718 Central Ave. Odor smelled like sulfur/rotten egg odor. Intensity was a 4 out of 5. Wind direction from Southwest @ 7 mph.

VOC Analysis  
Sample can  
ID# 54659

**REQUESTED ANALYSIS:**

Relinquished by	Received by	Firm/Agency	Date	Time
Kevin Kron	Kendy Morris	SCAQM	7/18/18	1257
Kendy Morris	Ilharia Garcia	SCAQM Lab	7/19/18	1327 <sup>30</sup>

Remarks: