



**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.** 1813706-01  
**Requested By** Peter Campbell  
**Rule No.** R402  
**ST No.** NA  
**Report Created** 08/23/2018

**Sampling Location**  
Residential  
Huntington Beach, CA

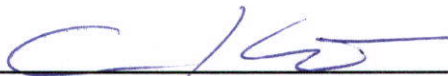
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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS**  
**Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID**

**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.** 1813706-01  
**Sample Description** SUMMA Canister 54145  
**Sample Comments** Collected halfway through 20 min odor event, rotten egg or methane 3-4/5, wind from SW. Collected by HB Fire Department Station #5.  
**Sample Date 05/16/2018**                      **Received Date 05/17/2018**                      **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	1000	0.4	1.2	100-700
Total Calibrated, ppbC	1000	0.4	1.2	
Ethane (FID), ppbv	45	0.2	0.6	
Ethylene (FID), ppbv	0.9	0.2	0.6	0.7-4.1
Acetylene (FID), ppbv	0.5	0.2	0.6	
Propane (FID), ppbv	96	0.1	0.4	0.4-5.0
Propylene (FID), ppbv	0.3	0.1	0.4	0.2-0.7
Isobutane (FID), ppbv	19	0.1	0.3	0.2-0.9
n-Butane (FID), ppbv	59	0.1	0.3	0.3-1.7
1-Butene (FID), ppbv	ND	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	18	0.08	0.2	
1-Pentene (FID), ppbv	ND	0.08	0.2	
n-Pentane (FID), ppbv	20	0.08	0.2	0.1-0.6
Isoprene (FID), ppbv	0.1	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	0.1	0.07	0.2	
Cyclopentane (FID), ppbv	0.6	0.08	0.2	
2,3-Dimethylbutane (FID), ppbv	0.6	0.07	0.2	
2-Methylpentane (FID), ppbv	3.3	0.07	0.2	
3-Methylpentane (FID), ppbv	2.4	0.07	0.2	
1-Hexene (FID), ppbv	ND	0.07	0.2	<0.1-0.1
n-Hexane (FID), ppbv	5.2	0.07	0.2	0.1-0.2
Methylcyclopentane (FID), ppbv	0.8	0.07	0.2	
2,4-Dimethylpentane (FID), ppbv	0.1	0.06	0.2	
Benzene (FID), ppbv	0.3	0.07	0.2	0.1-0.5
Cyclohexane (FID), ppbv	0.4	0.07	0.2	
2-Methylhexane (FID), ppbv	0.3	0.06	0.2	



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**Laboratory No.** 1813706-01 - continued  
**Sample Description** SUMMA Canister 54145  
**Sample Comments** Collected halfway through 20 min odor event, rotten egg or methane 3-4/5, wind from SW. Collected by HB Fire Department Station #5.  
**Sample Date 05/16/2018**                      **Received Date 05/17/2018**                      **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>
2,3-Dimethylpentane (FID), ppbv	0.6	0.06	0.2	
3-Methylhexane (FID), ppbv	0.7	0.06	0.2	
2,2,4-Trimethylpentane (FID), ppbv	0.2	0.05	0.2	
n-Heptane (FID), ppbv	1.4	0.06	0.2	0.1-0.2
Methylcyclohexane (FID), ppbv	0.3	0.06	0.2	
2,3,4-Trimethylpentane (FID), ppbv	ND	0.05	0.2	
Toluene (FID), ppbv	0.3	0.06	0.2	0.1-0.6
2-Methylheptane (FID), ppbv	0.2	0.05	0.2	
3-Methylheptane (FID), ppbv	0.1	0.05	0.2	
n-Octane (FID), ppbv	0.4	0.05	0.2	<0.1-0.3
Ethylbenzene (FID), ppbv	ND	0.05	0.2	0.1-0.2
m+p-Xylene (FID), ppbv	0.1	0.05	0.2	0.1-0.2
Styrene (FID), ppbv	ND	0.05	0.2	<0.1-0.2
o-Xylene (FID), ppbv	ND	0.05	0.2	0.1-0.2
n-Nonane (FID), ppbv	0.09	0.04	0.1	<0.1-0.1
Isopropylbenzene (FID), ppbv	ND	0.04	0.1	
n-Propylbenzene (FID), ppbv	ND	0.04	0.1	
m-Ethyltoluene (FID), ppbv	ND	0.04	0.1	
p-Ethyltoluene (FID), ppbv	ND	0.04	0.1	
1,3,5-Trimethylbenzene (FID), ppbv	ND	0.04	0.1	
o-Ethyltoluene (FID), ppbv	ND	0.04	0.1	
1,2,4-Trimethylbenzene (FID), ppbv	ND	0.04	0.1	
n-Decane (FID), ppbv	ND	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 INFORMATION  
 INVOICE SOURCE  
 LABORATORY NO. 1813706

TO: SCAQMD LAB:  OTHER:  \_\_\_\_\_  
 SOURCE NAME: N/A I.D. No. \_\_\_\_\_  
 Source Address: \_\_\_\_\_ City: Huntington Beach  
 Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_ Tel: \_\_\_\_\_

Analysis Requested by: Peter Campbell Date: 5/17/18  
 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: Devin Appel Date: 5/16/18 Time: 1600

Specify the description and location where the sample was collected: Collected at 530 Lake St. in HB  
 halfway through 20 min odorevent, odors described as rotten egg or methane 3-4/5  
 Sample collected by HB Fire Department station #5. Wind from SW ID #54145

Analysis Requested: VOC

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Peter Campbell</u>	<u>HPhillipson</u>	<u>SCAQMD Lab</u>	<u>5/17/18</u>	<u>1030</u>

Remarks: