



**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.** 1731201-01  
**Requested By** Peter Campbell

**Sampling Location**  
Various Sampling Locations  
Huntington Beach, CA

**Rule No.** 402  
**ST No.** NA  
**Report Created** 11/30/2017

**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:**

11/30/17

**Approved By:**

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

**Date Approved:**

11/30/17



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**Laboratory No.** 1731201-01  
**Sample Description** SUMMA Canister SUMMA canister, 54558  
**Sample Comments** Detected sulfur odor at intersection of Slater and Newland in Huntington Beach. Odor intensity 2-3, winds 3-4 mph from SW.  
**Sample Date 11/07/2017** **Received Date 11/08/2017** **Analyzed Date 11/09/2017**

**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>
<b>Total NMOC, ppbC</b>	5100	0.1	0.3	100-700
<b>Total Calibrated, ppbC</b>	5000	0.1	0.3	
Ethane (FID), ppbv	230	0.05	0.2	
Ethylene (FID), ppbv	0.3	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	0.3	0.05	0.2	
Propane (FID), ppbv	490	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	<i>J (0.08)</i>	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	100	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	290	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	ND	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	81	0.02	0.06	
1-Pentene (FID), ppbv	<i>J (0.02)</i>	0.02	0.06	
n-Pentane (FID), ppbv	97	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	0.2	0.02	0.06	
trans-2-Pentene (FID), ppbv	<i>J (0.02)</i>	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	0.7	0.02	0.05	
Cyclopentane (FID), ppbv	3.0	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	2.8	0.02	0.05	
2-Methylpentane (FID), ppbv	17	0.02	0.05	
3-Methylpentane (FID), ppbv	12	0.02	0.05	
1-Hexene (FID), ppbv	ND	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	27	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	4.1	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	0.5	0.01	0.04	
Benzene (FID), ppbv	1.0	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	2.1	0.02	0.05	
2-Methylhexane (FID), ppbv	1.1	0.01	0.04	



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**Laboratory No.** 1731201-01 - continued  
**Sample Description** SUMMA Canister SUMMA canister, 54558  
**Sample Comments** Detected sulfur odor at intersection of Slater and Newland in Huntington Beach. Odor intensity 2-3, winds 3-4 mph from SW.  
**Sample Date 11/07/2017** **Received Date 11/08/2017** **Analyzed Date 11/09/2017**

**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	2.9	0.01	0.04	
3-Methylhexane (FID), ppbv	3.5	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	0.7	0.01	0.04	
n-Heptane (FID), ppbv	6.8	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	1.8	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	0.05	0.01	0.04	
Toluene (FID), ppbv	1.1	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	1.0	0.01	0.04	
3-Methylheptane (FID), ppbv	0.7	0.01	0.04	
n-Octane (FID), ppbv	1.6	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	0.2	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	0.6	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	<i>J (0.02)</i>	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	0.2	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	0.4	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	<i>J (0.03)</i>	0.01	0.03	
n-Propylbenzene (FID), ppbv	<i>J (0.02)</i>	0.01	0.03	
m-Ethyltoluene (FID), ppbv	0.06	0.01	0.03	
p-Ethyltoluene (FID), ppbv	<i>J (0.01)</i>	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	0.04	0.01	0.03	
o-Ethyltoluene (FID), ppbv	<i>J (0.03)</i>	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	0.1	0.01	0.03	
n-Decane (FID), ppbv	0.1	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	<i>J (0.03)</i>	0.01	0.03	
m-Diethylbenzene (FID), ppbv	ND	0.01	0.03	
p-Diethylbenzene (FID), ppbv	<i>J (0.01)</i>	0.01	0.03	
n-Undecane (FID), ppbv	<i>J (0.03)</i>	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	<i>J (0.008)</i>	0.008	0.02	<0.1

\* J = Value is between method detection and reporting limits.

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

DISTRICT  
 INVOICE  
LABORATORY

1731201



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: 11/8/17

Approved by: FRED GONZALEZ Office: C Compliance Budget #: 60-375

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

Suspected Violation Rule(s) 402 Other

Sample Collected by: Peter Campbell Date: 11/7/17 Time: 1505

Specify the description and location where the sample was collected:

Detected sulfur odor at intersection of Slater & Newland in Huntington Beach, odor intensity 2-3, winds 3-4 mph from SW.

Canister 54558

Analysis Requested: VOC

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Peter Campbell</u>	<u>K. de Leon</u>	<u>SCAQM</u>	<u>11/8/17</u>	<u>0722</u>

Remarks: