



**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:** Marian Coleman  
Assistant Deputy Executive Officer  
Compliance & Enforcement

**Laboratory No.** 1719225-01

**Requested By** Kraig Morris

**Sampling Location**

Fire Station #4  
411 Loma Ave  
Long Beach, CA 90814

**Rule No.** R402

**ST No.** NA

**Report Created** 08/30/2017

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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:**

08/30/17

**Approved By:**

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

**Date Approved:**

8/30/17



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**Laboratory No.** 1719225-01  
**Sample Description** Grab, Stainless Steel Canister 54688  
**Sample Comments** Collected in back parking lot. Odor was petroleum smell with an intensity of 2 on a scale of 0 to 5.

**Sample Date 07/02/2017**

**Received Date 07/11/2017**

**Analyzed Date 07/15/2017**

**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>
Total NMOC, ppbC	6600	6.0	18	100-700
Total Calibrated, ppbC	5900	6.0	18	
Ethane (FID), ppbv	230	3.0	9.1	
Ethylene (FID), ppbv	J (0.2)	0.2	0.6	0.7-4.1
Acetylene (FID), ppbv	ND	0.2	0.6	
Propane (FID), ppbv	550	2.0	6.0	0.4-5.0
Propylene (FID), ppbv	ND	0.1	0.4	0.2-0.7
Isobutane (FID), ppbv	110	1.5	4.5	0.2-0.9
n-Butane (FID), ppbv	330	1.5	4.5	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	98	1.2	3.6	
1-Pentene (FID), ppbv	ND	0.08	0.2	
n-Pentane (FID), ppbv	110	1.2	3.6	0.1-0.6
Isoprene (FID), ppbv	ND	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	0.8	0.07	0.2	
Cyclopentane (FID), ppbv	3.5	0.08	0.2	
2,3-Dimethylbutane (FID), ppbv	3.2	0.07	0.2	
2-Methylpentane (FID), ppbv	19	0.07	0.2	
3-Methylpentane (FID), ppbv	14	0.07	0.2	
1-Hexene (FID), ppbv	ND	0.07	0.2	<0.1-0.1
n-Hexane (FID), ppbv	28	1.0	3.0	0.1-0.2
Methylcyclopentane (FID), ppbv	4.6	0.07	0.2	
2,4-Dimethylpentane (FID), ppbv	0.5	0.06	0.2	
Benzene (FID), ppbv	1.1	0.07	0.2	0.1-0.5
Cyclohexane (FID), ppbv	2.4	0.07	0.2	
2-Methylhexane (FID), ppbv	1.2	0.06	0.2	





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**Laboratory No.** 1719225-01 - continued  
**Sample Description** Grab, Stainless Steel Canister 54688  
**Sample Comments** Collected in back parking lot. Odor was petroleum smell with an intensity of 2 on a scale of 0 to 5.

**Sample Date 07/02/2017**

**Received Date 07/11/2017**

**Analyzed Date 07/14/2017**

**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	3.2	0.06	0.2	
3-Methylhexane (FID), ppbv	3.8	0.06	0.2	
2,2,4-Trimethylpentane (FID), ppbv	0.7	0.05	0.2	
n-Heptane (FID), ppbv	7.4	0.06	0.2	0.1-0.2
Methylcyclohexane (FID), ppbv	1.9	0.06	0.2	
2,3,4-Trimethylpentane (FID), ppbv	J (0.06)	0.05	0.2	
Toluene (FID), ppbv	1.1	0.06	0.2	0.1-0.6
2-Methylheptane (FID), ppbv	1.0	0.05	0.2	
3-Methylheptane (FID), ppbv	0.7	0.05	0.2	
n-Octane (FID), ppbv	1.7	0.05	0.2	<0.1-0.3
Ethylbenzene (FID), ppbv	J (0.1)	0.05	0.2	0.1-0.2
m+p-Xylene (FID), ppbv	0.5	0.05	0.2	0.1-0.2
Styrene (FID), ppbv	ND	0.05	0.2	<0.1-0.2
o-Xylene (FID), ppbv	J (0.1)	0.05	0.2	0.1-0.2
n-Nonane (FID), ppbv	0.4	0.04	0.1	<0.1-0.1
Isopropylbenzene (FID), ppbv	J (0.04)	0.04	0.1	
n-Propylbenzene (FID), ppbv	ND	0.04	0.1	
m-Ethyltoluene (FID), ppbv	J (0.05)	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	J (0.1)	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  
 LAP AUDIT

LABORATORY NO 1719225

TO: SCAQMD LAB:  OTHER:   
 SOURCE NAME: FIRE Station #4 (Long Beach) I.D. No. \_\_\_\_\_  
 Source Address: 411 LOMA AVE City: Long Beach  
 Mailing Address: 3205 Lakewood Blvd City: Long Beach Zip: 90808  
 Contact Person: Capt. Van Egdorn Title: Fire Captain Tel: (562) 570-1204

Analysis Requested by: Kraig Morris Date: 7/11/17  
 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: Capt. Van Egdorn Date: 7/2/17 Time: 2148

**SAMPLE DESCRIPTION:**

Sample was collected in back parking lot of Long Beach Fire Station #4 at 411 Loma Ave. Odor was petroleum smell with an intensity of 2 out of 5 on a scale of 0 to 5.

PAMS CAN  
ID# 54688

**REQUESTED ANALYSIS:**

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Van Egdorn</u>	<u>Kraig Morris</u>	<u>SCAQMD</u>	<u>7/11/17</u>	<u>1330</u>
	<u>HPhillipson</u>	<u>SCAQMD Lab</u>	<u>7/11/17</u>	<u>1600</u>

Remarks: