

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

**MONITORING & ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

**TO:** Jason Low, Ph.D.  
Atmospheric Measurements Manager  
Science and Technology Advancement

**LABORATORY NO:** 1621152

**REFERENCE NO:** GC6-121-106

**SAMPLE DESCRIPTION:**  
Triggered Sample  
Canister # 54727

**DATE SAMPLED:** 07/29/16

**DATE RECEIVED:** 07/29/16

**DATE ANALYZED:** 08/02/16

**SAMPLE LOCATION:**  
Highlands Community Center

**ANALYZED BY:** Yang Song

**REQUESTED BY:** Sumner Wilson

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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

Volatile Organic Compounds (VOC) by Gas Chromatography(GC)  
and Flame Ionization Detection (FID)

Note: See attached for speciated results.

Date Approved: 8/5/16

Approved By:   
Solomon Teffera, Acting Sr. Manager  
Laboratory Services Branch  
(909) 396-2199

**LAB NO: 1621152**

**Location: Highlands Community Center**

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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

Quantitation of Organic Compounds by Gas Chromatography(GC) and  
Flame Ionization Detection (FID)

Sample Date	07/29/16	
Canister	54727	
<b>Sampling Location</b>	<b>Highlands Community Center</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	3070	100-700 ppbC
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	158	0.7-4.1
acetylene	642	
propane	2.6	0.4-5.0
propylene	38	0.2-0.7
isobutane	0.8	0.2-0.9
n-butane	2.2	0.3-1.7
1-butene	4.0	0.1-0.3
trans-2-butene	1.4	
cis-2-butene	1.1	
isopentane	15	
1-pentene	0.6	
n-pentane	7.2	0.1-0.6
isoprene	1.8	
trans-2-pentene	1.0	
cis-2-pentene	0.5	
2,2-dimethylbutane	0.7	
cyclopentane	1.0	
2,3-dimethylbutane	2.3	
2-methylpentane	5.9	
3-methylpentane	4.0	
1-hexene	0.2	<0.1-0.1
n-hexane	6.0	0.1-0.2
methylcyclopentane	4.6	
2,4-dimethylpentane	3.1	
benzene	13	0.1-0.5
cyclohexane	2.7	
2-methylhexane	2.3	
2,3-dimethylpentane	4.6	
3-methylhexane	2.6	
2,2,4-trimethylpentane	7.0	
n-heptane	2.0	0.1-0.2
methylcyclohexane	1.8	

**LAB NO: 1621152**

**Location: Highlands Community Center**

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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

Quantitation of Organic Compounds by Gas Chromatography(GC) and  
Flame Ionization Detection (FID)

Sample Date	07/29/16	
Canister	54727	
<b>Sampling Location</b>	<b>Highlands Community Center</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	3070	100-700 ppbC
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
2,3,4-trimethylpentane	1.8	
toluene	12	0.1-0.6
2-methylheptane	0.9	
3-methylheptane	0.9	
n-octane	0.9	<0.1-0.3
ethylbenzene	1.9	0.1-0.2
m+p-xylenes	7.2	0.1-0.2
styrene	1.1	<0.1-0.2
o-xylene	2.7	0.1-0.2
n-nonane	0.4	<0.1-0.1
isopropylbenzene	0.3	
n-propylbenzene	0.3	
m-ethyltoluene	1.5	
p-ethyltoluene	0.6	
1,3,5-trimethylbenzene	0.5	
o-ethyltoluene	0.6	
1,2,4-trimethylbenzene	2.1	
n-decane	0.2	<0.1-0.1
1,2,3-trimethylbenzene	0.8	
m-diethylbenzene	0.1	
p-diethylbenzene	0.4	
n-undecane	0.1	<0.1
n-dodecane	0.2	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

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

DIST  
 INVC  
 LAP  
LABOR



TO: SCAQMD LAB:  OTHER:

SOURCE NAME: Southern California Gas Co. I.D. No. \_\_\_\_\_

Source Address: 12801 Tampa Ave City: Porter Ranch

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: 91326

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_ Tel: \_\_\_\_\_

Analysis Requested by: Sumner Wilson Date: 7/29/16

Approved by: Jason Low Office: \_\_\_\_\_ Budget #: 44716

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

Suspected Violation Rule(s) \_\_\_\_\_ Other

Sample Collected by: Qian Zhou Date: 7/29/16 Time: 13:25

**REQUESTED ANALYSIS: PAMS analysis**

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	54727	7-29-16 / 06:42 / 5 min	-30"	-3"

Relinquished by	Received by	Firm/Agency	Date	Time
<i>zhongqian</i>	<i>Jobs Ratz</i>	SCAQMD Lab	07/29/16	4:28 pm

Remarks: Samples collected by passive sampling via the XonTech 912 triggered by the Thermo 55i NMHC.  
Trigger is set to 5ppm  
Highlands community pool parking lot. Address: 12378 High Glen Way, Northridge CA 91326 (across from 12377)