

**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:** 1623213

**REFERENCE NO:** GC6-121-108

**SAMPLE DESCRIPTION:**  
Triggered Samples  
Canister # E5117  
53391  
53418

**DATE SAMPLED:** 08/19/16

**DATE RECEIVED:** 08/19/16

**DATE ANALYZED:** 08/19/16

**SAMPLE LOCATION:**  
Highlands Community

**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: 9/14/16

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

**LAB NO: 1623213****Location: Highlands Community Center****ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

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

Sample Date	08/19/16	08/19/16	
Canister	E5117	53391	
<b>Sampling Location</b>	<b>Highlands Community Center</b>	<b>Highlands Community Center</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	302	168	100-700 ppbC
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	6.9	0.6	0.7-4.1
acetylene	5.6	0.5	
propane	2.8	0.9	0.4-5.0
propylene	2.0	0.1	0.2-0.7
isobutane	1.1	0.2	0.2-0.9
n-butane	1.1	0.3	0.3-1.7
1-butene	0.3	<0.1	0.1-0.3
trans-2-butene	<0.1	<0.1	
cis-2-butene	<0.1	<0.1	
isopentane	3.2	1.9	
1-pentene	<0.1	<0.1	
n-pentane	1.6	15	0.1-0.6
isoprene	0.3	0.8	
trans-2-pentene	<0.1	<0.1	
cis-2-pentene	<0.1	<0.1	
2,2-dimethylbutane	<0.1	<0.1	
cyclopentane	0.1	<0.1	
2,3-dimethylbutane	0.3	<0.1	
2-methylpentane	0.8	0.1	
3-methylpentane	0.5	<0.1	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	0.6	<0.1	0.1-0.2
methylcyclopentane	0.5	<0.1	
2,4-dimethylpentane	0.4	<0.1	
benzene	0.7	<0.1	0.1-0.5
cyclohexane	0.3	<0.1	
2-methylhexane	0.3	<0.1	
2,3-dimethylpentane	0.6	0.2	
3-methylhexane	0.4	<0.1	
2,2,4-trimethylpentane	0.9	0.2	
n-heptane	0.3	<0.1	0.1-0.2
methylcyclohexane	0.2	<0.1	

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<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
2,3,4-trimethylpentane	0.4	0.1	
toluene	1.8	0.7	0.1-0.6
2-methylheptane	0.1	<0.1	
3-methylheptane	0.1	<0.1	
n-octane	0.1	<0.1	<0.1-0.3
ethylbenzene	0.3	<0.1	0.1-0.2
m+p-xylenes	1.2	0.3	0.1-0.2
styrene	0.2	0.1	<0.1-0.2
o-xylene	0.4	0.1	0.1-0.2
n-nonane	0.1	<0.1	<0.1-0.1
isopropylbenzene	0.1	<0.1	
n-propylbenzene	<0.1	<0.1	
m-ethyltoluene	0.4	<0.1	
p-ethyltoluene	0.2	<0.1	
1,3,5-trimethylbenzene	0.2	<0.1	
o-ethyltoluene	0.2	<0.1	
1,2,4-trimethylbenzene	0.6	0.1	
n-decane	0.3	0.1	<0.1-0.1
1,2,3-trimethylbenzene	0.3	0.1	
m-diethylbenzene	0.3	<0.1	
p-diethylbenzene	<0.1	<0.1	
n-undecane	0.4	0.1	<0.1
n-dodecane	0.2	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

**LAB NO: 1623213****Location: Highlands Community Center****ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**Quantitation of Organic Compounds by Gas Chromatography(GC) and  
Flame Ionization Detection (FID)

Sample Date	08/19/16	
Canister	53418	
<b>Sampling Location</b>	<b>Highlands Community Center</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	166	100-700 ppbC

<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	0.6	0.7-4.1
acetylene	0.3	
propane	0.8	0.4-5.0
propylene	0.2	0.2-0.7
isobutane	0.2	0.2-0.9
n-butane	0.3	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	1.7	
1-pentene	<0.1	
n-pentane	15.7	0.1-0.6
isoprene	0.7	
trans-2-pentene	<0.1	
cis-2-pentene	<0.1	
2,2-dimethylbutane	<0.1	
cyclopentane	<0.1	
2,3-dimethylbutane	<0.1	
2-methylpentane	<0.1	
3-methylpentane	<0.1	
1-hexene	<0.1	<0.1-0.1
n-hexane	<0.1	0.1-0.2
methylcyclopentane	<0.1	
2,4-dimethylpentane	<0.1	
benzene	<0.1	0.1-0.5
cyclohexane	<0.1	
2-methylhexane	<0.1	
2,3-dimethylpentane	0.2	
3-methylhexane	<0.1	
2,2,4-trimethylpentane	0.2	
n-heptane	<0.1	0.1-0.2
methylcyclohexane	<0.1	



**LAB NO: 1623213**

**Location: Highlands Community Center**

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<b>Total NMOC, ppbC</b>	166	100-700 ppbC

<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
2,3,4-trimethylpentane	0.1	
toluene	0.6	0.1-0.6
2-methylheptane	<0.1	
3-methylheptane	<0.1	
n-octane	<0.1	<0.1-0.3
ethylbenzene	<0.1	0.1-0.2
m+p-xylenes	0.2	0.1-0.2
styrene	<0.1	<0.1-0.2
o-xylene	<0.1	0.1-0.2
n-nonane	<0.1	<0.1-0.1
isopropylbenzene	<0.1	
n-propylbenzene	<0.1	
m-ethyltoluene	<0.1	
p-ethyltoluene	<0.1	
1,3,5-trimethylbenzene	<0.1	
o-ethyltoluene	<0.1	
1,2,4-trimethylbenzene	0.1	
n-decane	0.1	<0.1-0.1
1,2,3-trimethylbenzene	<0.1	
m-diethylbenzene	<0.1	
p-diethylbenzene	<0.1	
n-undecane	0.1	<0.1
n-dodecane	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

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

DISTRICT  
 INVOICE  
 LAP A  
LABOR/



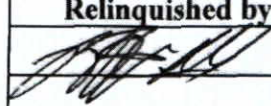
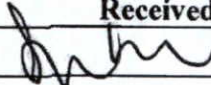
TO: SCAQMD LAB:  OTHER:  \_\_\_\_\_  
SOURCE NAME: Southern California Gas Co. I.D. No. \_\_\_\_\_  
Source Address: 12801 Tampa Ave City: Porter Ranch  
Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: 91326  
Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_ Tel: \_\_\_\_\_

Analysis Requested by: Sumner Wilson Date: 8/19/16  
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: Bo Vongphachanh Date: 8/19/16 Time: 11:20

**REQUESTED ANALYSIS: PAMS analysis**

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	E5117	8/19/16 / 07:11 / 5 min	-30"	0
	53391	8/19/16 / 07:14 / 5 min	-30"	-5
	53418	8/19/16 / 07:15 / 5 min	-30"	-2

Relinquished by	Received by	Firm/Agency	Date	Time
		SCAQMD Lab	8/19/2016	13:32

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)