

**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:** 1618729

**REFERENCE NO:** GC6-121-103

**SAMPLE DESCRIPTION:**  
24 hour Sample  
Canister # 22492

**DATE SAMPLED:** 07/05/16

**DATE RECEIVED:** 07/06/16

**DATE ANALYZED:** 07/06/16

**SAMPLE LOCATION:**  
Castlebay Elementary School

**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: 7/11/16

Approved By: \_\_\_\_\_

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

**LAB NO: 1618729**

**Location: Castlebay Elementary School**

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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	07/05/16	
Canister	22492	
<b>Sampling Location</b>	<b>Castlebay Elementary School</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	61	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	0.5	
propane	1.8	0.4-5.0
propylene	0.1	0.2-0.7
isobutane	0.4	0.2-0.9
n-butane	0.5	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	1.5	
1-pentene	<0.1	
n-pentane	0.2	0.1-0.6
isoprene	0.1	
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	0.2	0.1-0.5
cyclohexane	<0.1	
2-methylhexane	<0.1	
2,3-dimethylpentane	<0.1	
3-methylhexane	<0.1	
2,2,4-trimethylpentane	0.1	
n-heptane	<0.1	0.1-0.2
methylcyclohexane	<0.1	

**LAB NO: 1618729**

**Location: Castlebay Elementary School**

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

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Sample Date	07/05/16	
Canister	22492	
<b>Sampling Location</b>	<b>Castlebay Elementary School</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	61	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	0.2	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	<0.1	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

N.D. = Not Detected

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

DISTRICT REGISTRATION  
 INVOICE  
 LAP A  
 LABORATORY

WO #: 1618729



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: 7/6/16  
 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: 7/6/16 Time: 10:35<sup>A</sup>pm <sup>33</sup>

**REQUESTED ANALYSIS: PAMS analysis**

City/Location	Can#	Start day / time/ duration	Start vac	End Press
Porter Ranch / Castlebay Elem	22492	7/5/16 / 00:00 / 24 hours	-30"	+11

Relinquished by	Received by	Firm/Agency	Date	Time
<i>Zhongjian</i>	<i>[Signature]</i>	SCAQMD Lab	7/6/16	12:34pm

Remarks: 1:3 scheduled samples from trailer at Castlebay  
 Castlebay Lane Charter School – 19010 Castlebay Ln, Porter Ranch, CA  
 Left sampler, sn 3419