

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

**MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS**

TO: Cher Snyder Assistant DEO Engineering and Compliance	LABORATORY NO: <u>1535614</u>
SAMPLE DESCRIPTION: Canisters 54538 54659 54656	REFERENCE NO: <u>GC6-3-67</u> <u>12/17/15 and</u> DATE SAMPLED: <u>12/18/15</u>
SAMPLE LOCATION: So. Cal Gas Co. 12801 Tampa Ave Northridge, CA 91326	DATE RECEIVED: <u>12/22/15</u> DATE ANALYZED: <u>12/22/15</u>
	ANALYZED BY: <u>Yang Song</u>
	REQUESTED BY: <u>Sumner Wilson</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Note: Attached are speciated results for canisters 54538, 54659 and 54656.
Results for canisters 54694 and 54539 will be provided in a subsequent report.

Date Approved: 12/30/2015

Approved By: 

Rudy Eden, Sr. Manager
Laboratory Services Branch
(909) 396-2391

LAB NO: 1535614

Location: So. Cal Gas Co.

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sample Date	12/17/15	12/18/15	12/18/15	
Canister	54538	54659	54656	Ambient Air
Sampling Location	So. Cal Gas Co.	So. Cal Gas Co.	So. Cal Gas Co.	
Identified NMOC, ppbC	319	250	612	
Total NMOC, ppbC	342	266	641	100-700 ppbC

Compound	Conc. (ppbv)	Conc. (ppbv)	Conc. (ppbv)	Conc. (ppbv)
ethylene	1.2	0.7	0.8	0.7-4.1
acetylene	1.0	0.8	0.7	
propane	60	50	118	0.4-5.0
propylene	0.3	0.1	0.2	0.2-0.7
isobutane	6.6	5.3	12	0.2-0.9
n-butane	8.0	5.9	14	0.3-1.7
1-butene	0.1	<0.1	<0.1	0.1-0.3
trans-2-butene	<0.1	<0.1	<0.1	
cis-2-butene	<0.1	<0.1	<0.1	
isopentane	4.1	2.6	5.3	
1-pentene	<0.1	<0.1	<0.1	
n-pentane	1.6	1.3	2.8	0.1-0.6
isoprene	<0.1	<0.1	<0.1	
trans-2-pentene	<0.1	<0.1	N.D.	
cis-2-pentene	<0.1	<0.1	<0.1	
2,2-dimethylbutane	0.1	<0.1	0.1	
cyclopentane	0.1	0.1	0.2	
2,3-dimethylbutane	0.1	<0.1	0.2	
2-methylpentane	0.5	0.4	0.8	
3-methylpentane	0.3	0.2	0.5	
1-hexene	<0.1	<0.1	<0.1	<0.1-0.1
n-hexane	0.5	0.4	0.8	0.1-0.2
methylcyclopentane	0.5	0.3	0.7	
2,4-dimethylpentane	<0.1	<0.1	<0.1	
benzene	0.4	0.3	0.5	0.1-0.5
cyclohexane	0.4	0.3	0.7	
2-methylhexane	0.2	<0.1	0.2	
2,3-dimethylpentane	0.1	<0.1	0.1	
3-methylhexane	0.2	0.1	0.2	
2,2,4-trimethylpentane	0.1	0.1	<0.1	

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Compound	Conc. (ppbv)	Conc. (ppbv)	Conc. (ppbv)	Conc. (ppbv)
n-heptane	0.2	0.2	0.3	0.1-0.2
methylcyclohexane	0.5	0.4	0.9	
2,3,4-trimethylpentane	<0.1	<0.1	<0.1	
toluene	0.7	0.4	0.7	0.1-0.6
2-methylheptane	<0.1	<0.1	0.1	
3-methylheptane	<0.1	<0.1	<0.1	
n-octane	<0.1	<0.1	0.1	<0.1-0.3
ethylbenzene	<0.1	<0.1	<0.1	0.1-0.2
m+p-xylenes	0.3	0.2	0.4	0.1-0.2
styrene	<0.1	<0.1	<0.1	<0.1-0.2
o-xylene	<0.1	<0.1	<0.1	0.1-0.2
n-nonane	<0.1	<0.1	<0.1	<0.1-0.1
isopropylbenzene	<0.1	<0.1	<0.1	
n-propylbenzene	<0.1	<0.1	<0.1	
m-ethyltoluene	0.2	<0.1	<0.1	
p-ethyltoluene	<0.1	<0.1	<0.1	
1,3,5-trimethylbenzene	<0.1	<0.1	<0.1	
o-ethyltoluene	<0.1	<0.1	<0.1	
1,2,4-trimethylbenzene	<0.1	<0.1	<0.1	
n-decane	<0.1	<0.1	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	<0.1	<0.1	<0.1	
m-diethylbenzene	<0.1	<0.1	<0.1	
p-diethylbenzene	<0.1	<0.1	<0.1	
n-undecane	<0.1	<0.1	<0.1	<0.1
n-dodecane	<0.1	<0.1	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

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

DISTR
 INVOI
 LAP A
 LABOR

WO #: 1535614



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: 12/22/15
 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: S Wilson Date: 12-21-15 Time: 10:00 pst

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Porter Ranch Community Elementary School	54538 ✓	12/17/15 18:42 5 min	-30"	0
Porter Ranch Community Elementary School	54659 ✓	12/18/15 21:57 5 min	-30"	0
Porter Ranch Community Elementary School	54656 ✓	12/18/15 22:32 5 min	-30"	0
Porter Ranch Community Elementary School	54694 ✓	12/18/15 23:08 5 min	-30"	0
Porter Ranch Community Elementary School	54539 ✓	12/18/15 23:44 5 min	-30"	0

Relinquished by	Received by	Firm/Agency	Date	Time
Sumner Wilson	<i>Stan Dutz</i>	SCAQMD Lab	12-22-15	15:21

Remarks: Samples collected by passive sampling via the XonTech 912 triggered by the Mocon NMHC.
 Trigger is set to 20ppm

Porter Ranch Community School Elementary – 5 Sesnon Blvd, Porter Ranch, CA 91326

GPS (34.293369, -118.580505)