

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: 1601517

REFERENCE NO: GC6-3-70

SAMPLE DESCRIPTION:

Triggered Samples 54642
53386
54107
54647

DATE SAMPLED: 1/14/2016

DATE RECEIVED: 01/15/16

DATE ANALYZED: 01/15/16

SAMPLE LOCATION:

Highlands Community
Pool Parking Lot

ANALYZED BY: Yang Song

REQUESTED BY: Sumner Wilson

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: 1/21/2016 Approved By: _____


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

LAB NO: 1601517

Location: Highlands Community

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sample Date	01/14/16	01/14/16	
Canister	54642	53386	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
Total NMOC, ppbC	3180	1370	100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.2	0.1	0.7-4.1
acetylene	0.4	0.2	
propane	92	41	0.4-5.0
propylene	<0.1	<0.1	0.2-0.7
isobutane	11	4.6	0.2-0.9
n-butane	12	5.4	0.3-1.7
1-butene	0.1	<0.1	0.1-0.3
trans-2-butene	<0.1	<0.1	
cis-2-butene	<0.1	<0.1	
isopentane	4.7	2.2	
1-pentene	<0.1	<0.1	
n-pentane	22	10	0.1-0.6
isoprene	0.1	<0.1	
trans-2-pentene	<0.1	N.D.	
cis-2-pentene	N.D.	N.D.	
2,2-dimethylbutane	<0.1	<0.1	
cyclopentane	0.3	0.1	
2,3-dimethylbutane	0.2	<0.1	
2-methylpentane	0.7	0.3	
3-methylpentane	0.4	0.2	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	0.8	0.4	0.1-0.2
methylcyclopentane	0.7	0.3	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.5	0.2	0.1-0.5
cyclohexane	0.7	0.3	
2-methylhexane	0.2	<0.1	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.2	<0.1	
2,2,4-trimethylpentane	0.2	<0.1	
n-heptane	0.3	0.1	0.1-0.2
methylcyclohexane	0.8	0.3	

LAB NO: 1601517

Location: Highlands Community

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sample Date	01/14/16	01/14/16	
Canister	54642	53386	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
Total NMOC, ppbC	3180	1370	100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
2,3,4-trimethylpentane	<0.1	<0.1	
toluene	1.9	0.9	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	<0.1	<0.1	0.1-0.2
m+p-xylenes	0.2	<0.1	0.1-0.2
styrene	<0.1	<0.1	<0.1-0.2
o-xylene	<0.1	<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	<0.1	<0.1	
p-ethyltoluene	<0.1	<0.1	
1,3,5-trimethylbenzene	<0.1	<0.1	
o-ethyltoluene	<0.1	N.D.	
1,2,4-trimethylbenzene	<0.1	<0.1	
n-decane	<0.1	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	<0.1	<0.1	
m-diethylbenzene	<0.1	<0.1	
p-diethylbenzene	<0.1	<0.1	
n-undecane	<0.1	<0.1	<0.1
n-dodecane	<0.1	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

LAB NO: 1601517

Location: Highlands Community

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sample Date	01/14/16	01/14/16	
Canister	54107	54647	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
Total NMOC, ppbC	2980	433	100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.2	0.1	0.7-4.1
acetylene	0.4	0.2	
propane	86	12	0.4-5.0
propylene	<0.1	<0.1	0.2-0.7
isobutane	9.8	1.4	0.2-0.9
n-butane	11	1.8	0.3-1.7
1-butene	<0.1	<0.1	0.1-0.3
trans-2-butene	N.D.	<0.1	
cis-2-butene	N.D.	N.D.	
isopentane	4.6	1.2	
1-pentene	<0.1	<0.1	
n-pentane	19	5.1	0.1-0.6
isoprene	<0.1	<0.1	
trans-2-pentene	<0.1	N.D.	
cis-2-pentene	N.D.	N.D.	
2,2-dimethylbutane	<0.1	<0.1	
cyclopentane	0.2	<0.1	
2,3-dimethylbutane	0.1	<0.1	
2-methylpentane	0.7	0.1	
3-methylpentane	0.4	<0.1	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	0.7	0.1	0.1-0.2
methylcyclopentane	0.7	0.1	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.4	<0.1	0.1-0.5
cyclohexane	0.6	<0.1	
2-methylhexane	0.2	<0.1	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.2	<0.1	
2,2,4-trimethylpentane	0.2	<0.1	
n-heptane	0.3	<0.1	0.1-0.2
methylcyclohexane	0.7	0.1	

LAB NO: 1601517

Location: Highlands Community

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sample Date	01/14/16	01/14/16	
Canister	54107	54647	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
Total NMOC, ppbC	2980	433	100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
2,3,4-trimethylpentane	<0.1	<0.1	
toluene	1.8	0.5	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	<0.1	<0.1	0.1-0.2
m+p-xylenes	0.2	<0.1	0.1-0.2
styrene	<0.1	<0.1	<0.1-0.2
o-xylene	<0.1	<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	N.D.	
m-ethyltoluene	<0.1	<0.1	
p-ethyltoluene	<0.1	<0.1	
1,3,5-trimethylbenzene	<0.1	<0.1	
o-ethyltoluene	N.D.	N.D.	
1,2,4-trimethylbenzene	<0.1	<0.1	
n-decane	<0.1	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	<0.1	<0.1	
m-diethylbenzene	<0.1	<0.1	
p-diethylbenzene	<0.1	<0.1	
n-undecane	<0.1	<0.1	<0.1
n-dodecane	<0.1	N.D.	<0.1

NMOC = Non-Methane Organic Compounds
N.D. = Not Detected

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

DISTRICT I
 INVOICE S
 LAP AUDI
 LABORATO

WO #: 1601517



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: 12/31/15

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: Mike Koch Date: 1/14/16 Time: 15:30

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	54642	1-14-16 / 00:35 / 5 min	-30	-3
Highlands Community	53386	1-14-16 / 1:32 / 5 min	-30	-4
Highlands Community	54107	1-14-16 / 2:21 / 5 min	-30	-2
Highlands Community	54647	1-14-16 / 3:18 / 5 min	-30	-2

Relinquished by	Received by	Firm/Agency	Date	Time
Mike Koch	<i>[Signature]</i>	SCAQMD Lab	1/15/16	8:55

Remarks: Samples collected by passive sampling via the XonTech 912 triggered by the Thermo 55i NMHC.

Trigger is set to 35ppm

Highlands community pool parking lot. Address: 12378 High Glen Way, Northridge CA 91326 (across from 12377)