

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>1602727</u>
SAMPLE DESCRIPTION: Triggered Samples Canisters 54046 53410 22481	REFERENCE NO: <u>GC6-3-73</u> <u>01/24/16</u> DATE SAMPLED: <u>and 01/27/2016</u>
SAMPLE LOCATION: Highlands Community Pool Parking Lot	DATE RECEIVED: <u>01/27/16</u> DATE ANALYZED: <u>01/30/16</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: See attached for speciated results.

Date Approved: 2/5/16 Approved By: 
Rudy Eden, Sr. Manager
Laboratory Services Branch
(909) 396-2391

LAB NO: 1602727

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	01/24/16	01/24/16	
Canister	54046	53410	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
	Pool Parking Lot	Pool Parking Lot	
Total NMOC, ppbC	1850	1490	100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.2	0.2	0.7-4.1
acetylene	0.3	0.4	
propane	59	48	0.4-5.0
propylene	<0.1	<0.1	0.2-0.7
isobutane	7.1	5.6	0.2-0.9
n-butane	8.3	6.8	0.3-1.7
1-butene	<0.1	<0.1	0.1-0.3
trans-2-butene	N.D.	N.D.	
cis-2-butene	<0.1	<0.1	
isopentane	3.0	3.3	
1-pentene	<0.1	<0.1	
n-pentane	7.5	12	0.1-0.6
isoprene	<0.1	<0.1	
trans-2-pentene	<0.1	<0.1	
cis-2-pentene	<0.1	N.D.	
2,2-dimethylbutane	<0.1	<0.1	
cyclopentane	0.2	0.1	
2,3-dimethylbutane	<0.1	<0.1	
2-methylpentane	0.4	0.4	
3-methylpentane	0.3	0.2	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	0.5	0.4	0.1-0.2
methylcyclopentane	0.4	0.4	
2,4-dimethylpentane	<0.1	<0.1	
benzene	0.3	0.2	0.1-0.5
cyclohexane	0.4	0.3	
2-methylhexane	<0.1	<0.1	
2,3-dimethylpentane	<0.1	<0.1	
3-methylhexane	0.1	0.1	
2,2,4-trimethylpentane	0.1	<0.1	
n-heptane	0.2	0.1	0.1-0.2
methylcyclohexane	0.4	0.3	

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ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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Sample Date	01/24/16	01/24/16	
Canister	54046	53410	
Sampling Location	Highlands Community	Highlands Community	Ambient Air
	Pool Parking Lot	Pool Parking Lot	
Total NMOC, ppbC	1850	1490	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	0.8	1.1	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	0.1	<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	N.D.	
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

LAB NO: 1602727

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 01/27/16
Canister 22481
Sampling Location **Highlands Community** **Ambient Air**
Pool Parking Lot
Total NMOC, ppbC 970 100-700 ppbC

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	0.1	0.7-4.1
acetylene	0.2	
propane	29	0.4-5.0
propylene	<0.1	0.2-0.7
isobutane	3.4	0.2-0.9
n-butane	4.1	0.3-1.7
1-butene	<0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	2.3	
1-pentene	<0.1	
n-pentane	16	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	0.2	
3-methylpentane	0.2	
1-hexene	<0.1	<0.1-0.1
n-hexane	0.3	0.1-0.2
methylcyclopentane	0.3	
2,4-dimethylpentane	<0.1	
benzene	0.2	0.1-0.5
cyclohexane	0.2	
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	0.2	

LAB NO: 1602727

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	01/27/16	
Canister	22481	
Sampling Location	Highlands Community Pool Parking Lot	Ambient Air
Total NMOC, ppbC	970	100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
2,3,4-trimethylpentane	<0.1	
toluene	1.7	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	N.D.	
p-ethyltoluene	<0.1	
1,3,5-trimethylbenzene	<0.1	
o-ethyltoluene	N.D.	
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	N.D.	<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 #: 1602727



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: 1/27/16
 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: Robert Wimmer Date: 1/27/16 Time: 12:30

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	54046	1-24-16 / 18:55 / 5 min	-30	-3"
Highlands Community	53410	1-24-16 / 20:20 / 5 min	-30	-1"
Highlands Community	22481	1-27-16 / 01:31 / 5 min	-30	-15"

Relinquished by	Received by	Firm/Agency	Date	Time
<i>R. Wimmer</i>	<i>[Signature]</i>	SCAQMD Lab	1/27/16	4:05

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)