

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: 1602609
MN4-21-72
REFERENCE NO: GC6-3-73

SAMPLE DESCRIPTION:
Joint SCAQMD/DOGGR
Inspection Samples
Canisters: E0300
E3359

DATE SAMPLED: 01/24/16
DATE RECEIVED: 01/26/16
DATE ANALYZED: 02/03/16

SAMPLE LOCATION:
SoCal Site Surveys
Various

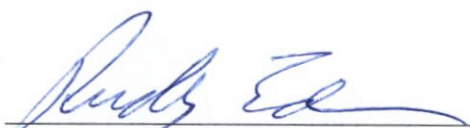
ANALYZED BY: Yang Song
REQUESTED BY: Sumner Wilson

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: 2/11/16

Approved By: 

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

LAB NO: 1602609**Location: SoCal Site Surveys****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	E0300	E3359	
Sampling Location	100 Meters	Aliso Del	Ambient Air
	West of SS25	Termo Leak	
Total NMOC, ppbC	61700*	1480	100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethylene	N.D.	0.1	0.7-4.1
acetylene	0.4	0.4	
propane	1960*	41	0.4-5.0
propylene	0.1	<0.1	0.2-0.7
isobutane	234*	11	0.2-0.9
n-butane	260*	17	0.3-1.7
1-butene	2.6	0.2	0.1-0.3
trans-2-butene	<0.1	N.D.	
cis-2-butene	<0.1	N.D.	
isopentane	77	11	
1-pentene	<0.1	<0.1	
n-pentane	54	7.9	0.1-0.6
isoprene	<0.1	<0.1	
trans-2-pentene	<0.1	N.D.	
cis-2-pentene	<0.1	0.3	
2,2-dimethylbutane	2.0	0.7	
cyclopentane	4.7	2.0	
2,3-dimethylbutane	2.9	1.3	
2-methylpentane	14	4.9	
3-methylpentane	8.0	3.4	
1-hexene	<0.1	<0.1	<0.1-0.1
n-hexane	14	5.1	0.1-0.2
methylcyclopentane	13	8.4	
2,4-dimethylpentane	0.7	0.4	
benzene	5.2	7.3	0.1-0.5
cyclohexane	12	11	
2-methylhexane	2.7	1.5	
2,3-dimethylpentane	0.9	0.7	
3-methylhexane	2.8	1.8	
2,2,4-trimethylpentane	2.8	2.5	
n-heptane	4.7	2.2	0.1-0.2
methylcyclohexane	14	13	

LAB NO: 1602609**Location: SoCal Site Surveys****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	E0300	E3359	
Sampling Location	100 Meters West of SS25	Aliso Del Termo Leak	Ambient Air
Total NMOC, ppbC	61700*	1480	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	4.9	4.7	0.1-0.6
2-methylheptane	1.4	1.2	
3-methylheptane	0.8	0.8	
n-octane	1.9	2.2	<0.1-0.3
ethylbenzene	0.6	0.7	0.1-0.2
m+p-xylenes	2.7	6.0	0.1-0.2
styrene	0.2	0.4	<0.1-0.2
o-xylene	0.8	1.5	0.1-0.2
n-nonane	1.2	1.3	<0.1-0.1
isopropylbenzene	0.2	0.4	
n-propylbenzene	0.1	0.4	
m-ethyltoluene	0.4	1.2	
p-ethyltoluene	0.1	0.3	
1,3,5-trimethylbenzene	0.3	0.5	
o-ethyltoluene	0.1	0.3	
1,2,4-trimethylbenzene	0.4	1.0	
n-decane	0.7	0.1	<0.1-0.1
1,2,3-trimethylbenzene	0.4	0.3	
m-diethylbenzene	<0.1	<0.1	
p-diethylbenzene	<0.1	<0.1	
n-undecane	0.3	<0.1	<0.1
n-dodecane	<0.1	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

* Very high analyte concentrations. Results for this canister are estimates.

WO #: 1602609

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

DISTRICT
 INVOICE
 LABORATORY



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: 1/26/16

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: 1/24/16 Time: 12:39,13:22

REQUESTED ANALYSIS: PAMS analysis

City/Location	Can#	Start day / time/ duration	Start vac	End vac
So Cal Site Survey: near SS25 34.315022, -118.564872	E0300	1-24-16 / 12:39 / ~1 min	-30	-10
So Cal Survey: Thermo leak 34.321545, -118.575265	E3359	1-24-16 / 13:22 / ~1 min	-30	-2
<i>100 meters west of well SS-25</i>				

Relinquished by	Received by	Firm/Agency	Date	Time
R. Wimmer	<i>[Signature]</i>	SCAQMD Lab	1-26-15	910

Remarks: Samples collected in concert with FLIR camera and LICOR methane detector

Andrea Polidori and Joseph Liaw in attendance

Can # 20300 Pressure indicator on can not reading *[Signature]*

Ref GC6-3-73

D.1 MW 4-21-72

E0300

Pf
676.8

Pf
877.3

V
6000

E3359

685.4

882.4

6000