

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

MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS

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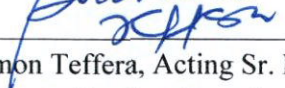
TO: Jason Low, Ph.D. Atmospheric Measurements Manager Science and Technology Advancement	LABORATORY NO: <u>1620110</u>
	REFERENCE NO: <u>MSF-9-95</u>
SAMPLE DESCRIPTION: Grab samples Canister # 54534 53392	DATE SAMPLED: <u>07/15/16</u>
	DATE RECEIVED: <u>07/19/16</u>
	DATE ANALYZED: <u>07/20/16</u>
SAMPLE LOCATION: Orphan Well Project 323 Firmin St. Los Angeles, CA	ANALYZED BY: <u>Yadira De Haro-Hammock</u>
	REQUESTED BY: <u>Sumner Wilson</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organics by Gas Chromatography(GC) -
Mass Spectrometry(MS) and Flame Ionization Detection(FID)

Note: See attached results.

Date Approved: 7/28/16

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

LAB NO: 1620110

Location: Orphan Well Project 323 Firmin St. Los Angeles, CA 90026

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ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organics by Gas Chromatography(GC) -
Mass Spectrometry(MS) and Flame Ionization Detection(FID)

Sample Date	7/15/2016	7/15/2016	
Canister	54534	53392	
Sampling time	8:01 AM	4:30 PM	
Total NMOC, ppbC	366	1111	Ambient Air 100-700 ppbC
<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
ethanol	14	7.5	
vinyl chloride	0.3	0.5	
1,3-butadiene	0.4	0.6	
2-propenal (Acrolein)	1.1	2.9	
acetone	5.9	10	
methylene chloride	0.6	1.0	
methyl tert butyl ether	0.2	0.6	
2-butanone (MEK)	1.1	3.5	
chloroform	0.3	0.6	
1,2-dichloroethane	0.4	0.8	
benzene	0.8	0.9	0.1-0.5
carbon tetrachloride	0.4	0.7	
1,2-dichloropropane	0.4	0.7	
trichloroethylene	0.3	0.6	
toluene	1.2	1.7	0.1-0.6
1,2-dibromoethane	0.4	1.1	
tetrachloroethylene	5.8	2.6	
ethylbenzene	0.5	1.4	0.1-0.2
m+p-xylenes	1.5	3.0	0.1-0.2
styrene	0.5	1.7	<0.1-0.2
o-xylene	0.4	1.4	0.1-0.2
1,4-dichlorobenzene	0.3	1.8	
1,2-dichlorobenzene	0.2	2.0	

LAB NO: 1620110

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<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>	<u>Conc. (ppbv)</u>
isoprene	<0.1	0.4	
acetylene+ethylene	6.7	4.8	
ethane	7.2	3.7	
propylene	1.0	1.0	0.2-0.7
propane	3.4	1.3	0.4-5.0
isobutane	0.9	0.4	0.2-0.9
1-butene	0.2	<0.1	0.1-0.3
n-butane	1.2	0.6	0.3-1.7
n-pentane	0.6	0.3	0.1-0.6
1-hexene	N.D.	<0.1	<0.1-0.1
n-hexane	0.6	0.8	0.1-0.2
n-heptane	0.3	0.7	0.1-0.2
n-octane	<0.1	N.D.	<0.1-0.3
n-nonane	N.D.	N.D.	<0.1-0.1
n-decane	<0.1	N.D.	<0.1-0.1
n-undecane	<0.1	N.D.	<0.1
n-dodecane	N.D.	N.D.	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

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

DISTRICT
 INVOICE
 LAP AU

1620110



LABORATORY NO 1010812

TO: SCAQMD LAB: OTHER: _____
 SOURCE NAME: Firmin Drill site I.D. No. _____
 Source Address: 323 Firmin Street City: Los Angeles
 Mailing Address: _____ City: _____ Zip: 90026
 Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: Sumner Wilson Date: 07/19/2016
 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: 07/15/2016 Time: 08:01, 16:30

REQUESTED ANALYSIS: VOC - PAMS

City/Location	Can#	Start day / duration	Start vac	End vac
Los Angeles/Firmin St Drill Site (near bore hole)	54534	07-15-16 8:01 3 min	-30"	0"
Los Angeles/Firmin St Drill Site (near extracted earth)	53392	07-15-16 16:30 3 min	-30"	-9"

Relinquished by	Received by	Firm/Agency	Date	Time
R Wimmer		SCAQMD Lab	7-19-16	1030

Remarks: