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

MONITORING & ANALYSIS REPORT OF LABORATORY ANALYSIS

Jason Low, Ph.D.	LABORATORY NO:	1610921
Atmospheric Measurements Manager Science and Technology Advancement	REFERENCE NO:	GC6-3-91
	DATE SAMPLED:	04/18/16
Canister # 54068	DATE RECEIVED:	04/19/16
PLE LOCATION:	DATE ANALYZED:	04/20/16
Highlands Community	ANALYZED BY:	Yang Song
root raiking Lot	REQUESTED BY:	Sumner Wilson
	Atmospheric Measurements Manager Science and Technology Advancement PLE DESCRIPTION: 24 hour Sample Canister # 54068 PLE LOCATION:	Atmospheric Measurements Manager Science and Technology Advancement REFERENCE NO: PLE DESCRIPTION: 24 hour Sample Canister # 54068 DATE RECEIVED: DATE ANALYZED: PLE LOCATION: Highlands Community Pool Parking Lot

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: 4/22/16 Approved By: _

Solomon Teffera, Acting Sr. Manager

Laboratory Services Branch

(909) 396-2199

<u>LAB NO: 1610921</u> <u>Location: Highlands Community Pool Parking Lot</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sample Date	04/18/16	
Canister	54068	
Sampling Location	Highlands Community	Ambient Air
	Pool Parking Lot	
Total NMOC, ppbC	40	100-700 ppbC
Compound	Conc. (ppbv)	Conc. (ppbv)
ethylene	0.7	0.7-4.1
acetylene	0.5	
propane	1.1	0.4-5.0
propylene	0.3	0.2-0.7
isobutane	0.2	0.2-0.9
n-butane	0.3	0.3-1.7
1-butene	0.1	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	< 0.1	
isopentane	1.5	
1-pentene	<0.1	
n-pentane	0.2	0.1-0.6
isoprene	0.2	
trans-2-pentene	N.D.	
cis-2-pentene	N.D.	
2,2-dimethylbutane	< 0.1	
cyclopentane	< 0.1	
2,3-dimethylbutane	< 0.1	
2-methylpentane	<0.1	
3-methylpentane	<0.1	
1-hexene	<0.1	< 0.1-0.1
n-hexane	< 0.1	0.1-0.2
methylcyclopentane	<0.1	
2,4-dimethylpentane	< 0.1	
benzene	0.1	0.1-0.5
cyclohexane	< 0.1	
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	< 0.1	

<u>LAB NO: 1610921</u> <u>Location: Highlands Community Pool Parking Lot</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

Sampling Location Highlands Community Pool Parking Lot Ambient Air Total NMOC, ppbC 40 100-700 ppbC Compound Conc. (ppbv) Conc. (ppbv) 2,3,4-trimethylpentane toluene 0.1 0.1-0.6 2-methylheptane <0.1 0.1-0.6 3-methylheptane <0.1 <0.1-0.3 3-methylheptane <0.1 <0.1-0.3 a-methylheptane <0.1 <0.1-0.3 a-methylheptane <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 o-xylene <0.1 <0.1-0.2 o-xylene <0.1 <0.1-0.2 n-nonane <0.1 <0.1-0.2 isopropylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 n-typelbenzene <0.1 <0.1-0.1 n-typelbenzene <0.1 <0.1-0.1 1,2,3-t	Sample Date	04/18/16	
Pool Parking Lot	Canister	54068	4 1: 44:
Compound Conc. (ppbv) Conc. (ppbv) 2,3,4-trimethylpentane <0.1 0.1-0.6 2-methylheptane <0.1 0.1-0.6 2-methylheptane <0.1 <0.1-0.3 3-methylheptane <0.1 <0.1-0.3 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 <0.1-0.2 n-propylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 n-ethyltoluene <0.1 <0.1-0.1 1,3,5-trimethylbenzene <0.1 <0.1-0.1 n-decane <0.1 <0.1-0.1 1,2,4-trimethylbenzene <0.1 <0.1-0.1 n-decane <0.1 <0.1-0.1 n-decane <0.1 <0.1-0.1 n-diethylbenzene <0.1 <0.1-0.1 n-diethylbenzene <0.1	Sampling Location		Ambient Air
Compound Conc. (ppbv) Conc. (ppbv) 2,3,4-trimethylpentane <0.1 0.1-0.6 2-methylheptane <0.1 0.1-0.6 3-methylheptane <0.1 <0.1-0.3 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 o-xylene <0.1 <0.1-0.2 n-nonane <0.1 <0.1-0.2 isopropylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 n-pethyltoluene <0.1 <0.1-0.1 1,2,5-trimethylbenzene <0.1 <0.1-0.1 1,2,4-trimethylbenzene <0.1 <0.1-0.1 1,2,3-trimethylbenzene <	Total NMOC nnhC		100-700 ppbC
2,3,4-trimethylpentane <0.1 0.1-0.6 2-methylheptane <0.1 0.1-0.6 3-methylheptane <0.1 <0.1-0.3 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 <0.1-0.2 isopropylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 m-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 1,2,3-trimethylbenzene <0.1 <0.1-0.1 m-diethylbenzene <0.1 <0.1-0.1 n-undecane <0.1 <0.1-0.1	Total Nivoc, ppac	40	100-700 ppoc
2,3,4-trimethylpentane <0.1 0.1-0.6 2-methylheptane <0.1 0.1-0.6 3-methylheptane <0.1 <0.1-0.3 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 <0.1-0.2 isopropylbenzene <0.1 <0.1-0.1 n-propylbenzene <0.1 <0.1-0.1 m-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 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	Compound	Conc. (ppbv)	Conc. (ppbv)
2-methylheptane <0.1	2,3,4-trimethylpentane		
3-methylheptane <0.1	toluene	0.1	0.1-0.6
n-octane <0.1	2-methylheptane	<0.1	
ethylbenzene <0.1	3-methylheptane	<0.1	
m+p-xylenes <0.1	n-octane	<0.1	< 0.1-0.3
styrene <0.1	ethylbenzene	<0.1	0.1-0.2
o-xylene	m+p-xylenes	<0.1	0.1-0.2
n-nonane <0.1	styrene	<0.1	< 0.1-0.2
isopropylbenzene <0.1	o-xylene	<0.1	0.1-0.2
n-propylbenzene	n-nonane	<0.1	< 0.1-0.1
m-ethyltoluene	isopropylbenzene	<0.1	
p-ethyltoluene <0.1	n-propylbenzene	<0.1	
1,3,5-trimethylbenzene N.D. o-ethyltoluene <0.1	m-ethyltoluene	<0.1	
o-ethyltoluene	p-ethyltoluene	<0.1	
1,2,4-trimethylbenzene <0.1	1,3,5-trimethylbenzene	N.D.	
n-decane <0.1	o-ethyltoluene	<0.1	
1,2,3-trimethylbenzene <0.1 m-diethylbenzene <0.1 p-diethylbenzene <0.1 n-undecane <0.1 <0.1	1,2,4-trimethylbenzene	<0.1	
m-diethylbenzene <0.1 p-diethylbenzene <0.1 n-undecane <0.1 <0.1	n-decane	<0.1	<0.1-0.1
p-diethylbenzene <0.1 n-undecane <0.1 <0.1	1,2,3-trimethylbenzene	<0.1	
n-undecane <0.1 <0.1	m-diethylbenzene	<0.1	
	p-diethylbenzene	<0.1	
n-dodecane N.D. <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

\boxtimes	DIST
	INVC
	LAP
LA	BOR



TO: SCAQMD LAB:	OTHER: [
SOURCE NAME:	Southern Califo	ornia Gas Co.	I.D. N	lo	
Source Address: 12801 Ta	ampa Ave		City:	Porter Ran	ch
Mailing Address:		City	:	Zip:	91326
Contact Person:	•	Γitle:		Tel:	
Analysis Requested by:	Sumner W	ilson	Date:	4/19/16	5
Approved by: Jasor	Low Off	ice:		Budget #:	44716
REASON REQUESTED: O		Permit Pe		Hazardous/Tox	
Sample Collected by:	Qian Zhou REQUESTED A		4/19/16 AMS analysis	Time:	8:55am
City/Location	Can#	Start day / t	ime/ duration	Start vac	End vac
Highlands Community	54068	4-18-16 / 00	:00 / 24 hours	-30"	+11.5
Relinquished by	Received 1	by	Firm/Agency	Date	Time
Zhongian	The		SCAQMD Lab		
Remarks 1:3 scheduled samples fro					