

#### MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

			(Page 1 of 7)	
To:			Laboratory No.	2104112-01
	-		Requested By	<b>Sumner Wilson</b>
			Rule No.	NA
Sam	pling Locat	tion	ST No.	NA
		C	Report Created	02/16/2021
	AN	NALYTICAL WORK PERFORME	ED, METHOD OF ANALY	SIS, AND RESULTS
		<b>Volatile Organic Compounds (VO</b>	Cs) in Ambient Air by EPA	A TO-15 (GC/MS)
	Summer Wilson Monitoring Operations Manager Science & Technology Advancement Requested By Sumner Wilson Rule No. NA  Male No. Na  Na  Male No. Na  Na  Male No. N			
		See attached resu	lts and sample information	ı <b>.</b>
Rev	iewed By:		Date	Reviewed:
		Stephen Dutz		
		_		
		Laboratory Services		
App	roved By:		Date:	Approved:
		Aaron Katzenstein, Ph.D. Senior Manager		

Laboratory Services (909) 396-2219



### MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

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**Laboratory No.** 2104112-01

Sample Description 24 Hour, SILCO Canister E5223, AA Asphalt Irvine: Northwood High School.

Sample Comments Note secondary TO-15 calibration standard was expired at time of analysis.

Sample Date 02/09/2021 Received Date 02/10/2021 Analyzed Date 02/10/2021

#### Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	Result	$\underline{\mathbf{MDL}}$	<u>MRL</u>	<b>Ambient Avg</b>
1,1,1-Trichloroethane, ppbv	ND	0.009	0.03	0.1
1,1,2,2-Tetrachloroethane, ppbv	ND	0.02	0.07	< 0.1
1,1,2-Trichloroethane, ppbv	ND	0.03	0.09	< 0.1
1,1-Dichloroethane, ppbv	ND	0.01	0.04	< 0.1
1,1-Dichloroethylene, ppbv	ND	0.03	0.09	
1,2,4-Trichlorobenzene, ppbv	ND	0.08	0.2	< 0.1
1,2,4-Trimethylbenzene, ppbv	J (0.03)	0.02	0.05	0.1
1,2-Dibromoethane, ppbv	ND	0.02	0.08	
1,2-Dichlorobenzene, ppbv	ND	0.04	0.1	
1,2-Dichloroethane, ppbv	J (0.02)	0.01	0.04	
1,2-Dichloropropane, ppbv	ND	0.01	0.03	< 0.1
1,3,5-Trimethylbenzene, ppbv	ND	0.03	0.1	0.1
1,3-Butadiene, ppbv	ND	0.03	0.08	< 0.1
1,3-Dichlorobenzene, ppbv	ND (QX)	0.03	0.1	
1,4-Dichlorobenzene, ppbv	ND(QX)	0.04	0.1	
1,4-Dioxane, ppbv	ND (QX)	0.04	0.1	< 0.1
2-Butanone (MEK), ppbv	J(0.1)	0.06	0.2	0.3
2-Hexanone (MBK), ppbv	ND	0.05	0.1	
2-Propenal, ppbv	J (0.06)	0.05	0.2	
Acetone, ppbv	2.2	0.3	0.9	7.7
Benzene, ppbv	0.09	0.01	0.03	0.6
Benzyl chloride, ppbv	ND (QX)	0.03	0.08	< 0.1
Bromodichloromethane, ppbv	ND	0.01	0.04	< 0.1
Bromoform, ppbv	ND	0.04	0.1	< 0.1
Bromomethane, ppbv	ND	0.03	0.08	< 0.1
Carbon disulfide, ppbv	ND	0.04	0.1	< 0.1
Carbon Tetrachloride, ppbv	0.08	0.009	0.03	0.1
Chlorobenzene, ppbv	ND	0.02	0.05	< 0.1
Chloroethane, ppbv	ND	0.02	0.06	< 0.1
Chloroform, ppbv	0.02	0.008	0.02	< 0.1
Chloromethane, ppbv	0.5	0.03	0.08	0.6



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Laboratory No. 2104112-01 - continued

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Sample Date 02/09/2021 Received Date 02/10/2021 Analyzed Date 02/10/2021

#### Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

Analyte, Unit	Result	<b>MDL</b>	<u>MRL</u>	<b>Ambient Avg</b>
cis-1,2-Dichloroethylene, ppbv	ND	0.01	0.04	
cis-1,3-Dichloropropene, ppbv	ND	0.03	0.1	
Cyclohexane, ppbv	J(0.01)	0.01	0.03	0.1
Dibromochloromethane, ppbv	ND	0.03	0.08	< 0.1
Dichlorodifluoromethane (Freon 12), ppbv	0.4	0.03	0.09	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	J (0.02)	0.02	0.06	< 0.1
Ethanol, ppbv	5.8 (LJ)	0.3	0.9	7.3
Ethyl Acetate, ppbv	ND	0.08	0.2	< 0.1
Ethylbenzene, ppbv	J (0.03)	0.02	0.07	0.2
Ethylene oxide, ppbv	0.06	0.02	0.06	
Hexachloro-1,3-butadiene, ppbv	ND	0.07	0.2	
Isopropanol, ppbv	ND (QX)	0.3	0.9	
m+p-Xylene, ppbv	J (0.06)	0.04	0.1	0.6
Methyl Isobutyl Ketone (MIBK), ppbv	ND	0.06	0.2	
Methyl Methacrylate, ppbv	ND	0.05	0.2	
Methyl tert-Butyl Ether (MTBE), ppbv	ND	0.02	0.07	
Methylene Chloride, ppbv	0.1	0.02	0.07	0.2
n-Heptane, ppbv	ND (QX)	0.04	0.1	0.2
n-Hexane, ppbv	0.04	0.01	0.04	0.1
o-Xylene, ppbv	ND	0.08	0.2	0.2
p-Ethyltoluene, ppbv	J (0.02)	0.02	0.06	
Propylene, ppbv	J(0.05)	0.04	0.1	0.5
Styrene, ppbv	J (0.03)	0.02	0.06	0.1
Tetrachloroethylene, ppbv	ND	0.02	0.06	
Tetrahydrofuran, ppbv	ND	0.03	0.1	< 0.1
Toluene, ppbv	0.1	0.03	0.1	1.6
trans-1,2-Dichloroethylene, ppbv	ND	0.02	0.05	
trans-1,3-Dichloropropene, ppbv	ND	0.03	0.08	
Trichloroethylene, ppbv	ND	0.01	0.04	< 0.2
Trichlorofluoromethane (Freon 11), ppbv	0.2	0.02	0.06	0.2
Trichlorotrifluoroethane (Freon 113), ppbv	0.06	0.01	0.04	0.1



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Laboratory No. 2104112-01 - continued

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Sample Comments Note secondary TO-15 calibration standard was expired at time of analysis.

Sample Date 02/09/2021 Received Date 02/10/2021 Analyzed Date 02/10/2021

#### Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

Analyte, Unit	Result	<b>MDL</b>	<u>MRL</u>	Ambient Avg	
Vinyl acetate, ppbv	ND	0.08	0.2	<0.1	
Vinyl chloride, ppbv	ND	0.02	0.07	< 0.1	



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Laboratory No. 2104112-01 - continued

Sample Description 24 Hour, SILCO Canister E5223, AA Asphalt Irvine: Northwood High School.

Sample Comments Note secondary TO-15 calibration standard was expired at time of analysis.

Sample Date 02/09/2021 Received Date 02/10/2021 Analyzed Date 02/11/2021

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS) - Tentatively Identified

--TENTATIVELY IDENTIFIED COMPOUNDS--CONCENTRATIONS ARE APPROXIMATED

Analyte, Unit Result
No TICs Found, ppbv 0.0



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**Laboratory No.** 2104112-01

#### **DEFINITIONS**

Item	Definition
MDL	Method Detection Limit
MRL	Method Reporting Limit
ND	Non-detect; Value is below MDL.
J	Value is between method detection and reporting limits.
LJ	Identification of Analyte is Acceptable; Reported Value is an Estimate
QX	Does not meet QC criteria.

# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SAMPLE ANALYSIS REQUEST

$\boxtimes$	DISTRICT INFORMATION
	INVOICE SOURCE
	LAP AUDIT

LABORATORY NO 2104112

TO: SCAQMD LAB:	OTHER:				
SOURCE NAME: AAA	A Asphalt		I.D. No.		
Source Address: 4515 Pc	ortola Pkwy		City:	Irvine	
Mailing Address:		City:		Zip:	92620
Analysis Requested by: _	Sumner V	/ilson ]	Date:	02/10/21	
Approved by: Ja	son Low Of	fice:	Bı	udget #:	44716
REASON REQUESTED: Suspected Violation		Permit Pending		lazardous/Toxi	
Sample Collected by:		Date:	02/10/21 T	ime: (	)940 pst
Location	Can#	ED ANALYSIS:	duration	Start vac	End vac
Northwood High Scho		Start day / time / duration 02/09/21 / 00:00 / 1438 min		-30" Hg	-3"Hg
Relinquished by	Received	by Fir	·m/Agency	Date	Time
J Caldero	shelf		AQMD Lab	02/10/21	11:00 AM
Shelt	R. Lapez	309	16Mg lab	62/10124	11:16
Remarks:					4
SN #585 Orfice 274 box #	3				
AAA Asphalt Irvine: Nor	thwood High School				