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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

To: Sumner Wilson
Monitoring Operations Manager
Science & Technology Advancement

Laboratory No. **2109603-01**
Requested By **Sumner Wilson**
Rule No. **NA**
ST No. **NA**
Report Created **04/21/2021**

Sampling Location
Northwood High School
4515 Portola Pkwy
Irvine, CA

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

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

See attached results and sample information.

Reviewed By: Stephen Dutz Digitally signed by Stephen Dutz Date: 2021.04.21 13:20:33 -07'00' **Date Reviewed:** _____

Stephen Dutz
Principal A.Q. Chemist
Laboratory Services

Approved By: Aaron Katzenstein Digitally signed by Aaron Katzenstein Date: 2021.04.21 13:52:57 -07'00' **Date Approved:** _____

Aaron Katzenstein, Ph.D.
Senior Manager
Laboratory Services
(909) 396-2219

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MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

Laboratory No. **2109603-01**

Sample Description 24 Hour, SILCO Canister E0714, AA Asphalt Irvine: Northwood High School.

Sample Date 04/04/2021 **Received Date 04/06/2021** **Analyzed Date 04/07/2021**

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

Analyte, Unit	Result	MDL	MRL	Ambient Avg
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 (QX)	0.08	0.2	<0.1
1,2,4-Trimethylbenzene, ppbv	0.08 (LJ)	0.02	0.05	0.1
1,2-Dibromoethane, ppbv	ND	0.02	0.08	
1,2-Dichlorobenzene, ppbv	ND (QX)	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	0.3	0.06	0.2	0.3
2-Hexanone (MBK), ppbv	ND (QX)	0.05	0.1	
2-Propenal, ppbv	*J (0.1)*	0.05	0.2	
Acetone, ppbv	4.2	0.3	0.9	7.7
Benzene, ppbv	0.1	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 (QX)	0.03	0.08	<0.1
Carbon disulfide, ppbv	ND	0.04	0.1	<0.1
Carbon Tetrachloride, ppbv	0.09	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	0.05	0.008	0.02	<0.1
Chloromethane, ppbv	0.7	0.03	0.08	0.6
cis-1,2-Dichloroethylene, ppbv	ND	0.01	0.04	

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Laboratory No. **2109603-01 - continued**

Sample Description 24 Hour, SILCO Canister E0714, AA Asphalt Irvine: Northwood High School.

Sample Date 04/04/2021 **Received Date 04/06/2021** **Analyzed Date 04/07/2021**

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

Analyte, Unit	Result	MDL	MRL	Ambient Avg
cis-1,3-Dichloropropene, ppbv	ND	0.03	0.1	
Cyclohexane, ppbv	0.04 (LJ)	0.01	0.03	0.1
Dibromochloromethane, ppbv	ND	0.03	0.08	<0.1
Dichlorodifluoromethane (Freon 12), ppbv	0.5	0.03	0.09	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	*J (0.02)*	0.02	0.06	<0.1
Ethanol, ppbv	3.9 (LJ)	0.3	0.9	7.3
Ethyl Acetate, ppbv	ND (QX)	0.08	0.2	<0.1
Ethylbenzene, ppbv	*J (0.05)*	0.02	0.07	0.2
Ethylene oxide, ppbv	0.06 (LJ)	0.02	0.06	
Hexachloro-1,3-butadiene, ppbv	ND	0.07	0.2	
Isopropanol, ppbv	*J (0.4)*	0.3	0.9	
m+p-Xylene, ppbv	*J (0.08)*	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	0.04	0.1	0.2
n-Hexane, ppbv	0.08	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	0.1	0.04	0.1	0.5
Styrene, ppbv	0.06	0.02	0.06	0.1
Tetrachloroethylene, ppbv	ND	0.02	0.06	
Tetrahydrofuran, ppbv	*J (0.04)*	0.03	0.1	<0.1
Toluene, ppbv	0.2	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	0.3	0.02	0.06	0.2
Trichlorotrifluoroethane (Freon 113), ppbv	0.09	0.01	0.04	0.1
Vinyl acetate, ppbv	*J (0.1)*	0.08	0.2	<0.1
Vinyl chloride, ppbv	ND	0.02	0.07	<0.1

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Laboratory No. **2109603-01 - continued**

Sample Description 24 Hour, SILCO Canister E0714, AA Asphalt Irvine: Northwood High School.

Sample Date 04/04/2021 **Received Date 04/06/2021** **Analyzed Date 04/07/2021**

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MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

Laboratory No. **2109603-01 - continued**

Sample Description 24 Hour, SILCO Canister E0714, AA Asphalt Irvine: Northwood High School.

Sample Date 04/04/2021 **Received Date 04/06/2021** **Analyzed Date 04/15/2021**

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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MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

Laboratory No. 2109603-01

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.
QX	Does not meet QC criteria.
LJ	Identification of Analyte is Acceptable; Reported Value is an Estimate

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST

☒ DISTRICT INFORMATION
☐ INVOICE SOURCE
☐ LAP AUDIT

LABORATORY NO 2109603

TO: SCAQMD LAB: ☒ OTHER: ☐

SOURCE NAME: AAA Asphalt I.D. No.

Source Address: 4515 Portola Pkwy City: Irvine

Mailing Address: City: Zip: 92620

Contact Person: Title: Tel:

Analysis Requested by: Sumner Wilson Date: 04/06/21

Approved by: Jason Low Office: Budget #: 44716

REASON REQUESTED: Court/Hearing Board ☐ Permit Pending ☐ Hazardous/Toxic Spill ☐

Suspected Violation Rule(s) Other ☒ near source monitoring

Sample Collected by: B Grant Date: 04/06/21 Time: 0945 pst

REQUESTED ANALYSIS:

Location	Can#	Start day / time / duration	Start vac	End vac
Northwood High School	E0714	04/04/21 / 00:00 / 1438 min	-30" Hg	-2"Hg

Relinquished by	Received by	Firm/Agency	Date	Time
B Grant	shelf	SCAQMD Lab	04/06/21	1445
Shelf	R.Lopez	SCAQMD Lab	04/06/21	1456

Remarks:

SN #585 Orfice 274 box #3

AAA Asphalt Irvine: Northwood High School