



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

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To: Marian Coleman
Assistant Deputy Executive Officer
Compliance & Enforcement

Laboratory No. 1713806-01

Requested By Kraig Morris

Sampling Location

HB Fire Station #7
383 Warner Ave
Huntington Beach, CA 92648

Rule No. R402

ST No. NA

Report Created 08/09/2017

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
Principal A.Q. Chemist
Laboratory Services

Date Reviewed:

08/09/17

Approved By:

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

Date Approved:

8/10/17



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Laboratory No. 1713806-01

Sample Description SUMMA Canister 53478

Sample Date 05/18/2017

Received Date 05/18/2017

Analyzed Date 05/19/2017

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

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Hexane, 2,4-dimethyl- (01), ppbv	0.2	0.1	0.1	
Cyclopentane, 1,3-dimethyl-..., ppbv	0.2	0.1	0.1	
1,1,1-Trichloroethane, ppbv	ND	0.1	0.1	0.1
1,1,2,2-Tetrachloroethane, ppbv	ND	0.1	0.1	<0.1
1,1-Dichloroethylene, ppbv	ND	0.1	0.1	
1,1,2-Trichloroethane, ppbv	ND	0.1	0.1	<0.1
1,1-Dichloroethane, ppbv	ND	0.1	0.1	<0.1
1,2,3-Trimethylbenzene, ppbv	ND	0.1	0.1	
1,2,4-Trichlorobenzene, ppbv	ND	0.1	0.1	<0.1
1,2,4-Trimethylbenzene, ppbv	ND	0.1	0.1	
1,2-Dibromoethane, ppbv	ND	0.1	0.1	
1,2-Dichlorobenzene, ppbv	ND	0.1	0.1	
1,2-Dichloroethane, ppbv	ND	0.1	0.1	
1,2-Dichloropropane, ppbv	ND	0.1	0.1	<0.1
1,3,5-Trimethylbenzene, ppbv	ND	0.1	0.1	
1,3-Butadiene, ppbv	ND	0.1	0.1	<0.1
1,3-Dichlorobenzene, ppbv	ND	0.1	0.1	
1,4-Dichlorobenzene, ppbv	ND	0.1	0.1	
1,4-Dioxane, ppbv	ND	0.1	0.1	<0.1
1-Butene, ppbv	ND	0.1	0.1	
1-Hexene, ppbv	ND	0.1	0.1	
1-Pentene, ppbv	ND	0.1	0.1	
2,2,4-Trimethylpentane, ppbv	ND	0.1	0.1	
Isopropanol, ppbv	0.1	0.1	0.1	
2,2-Dimethylbutane, ppbv	0.4	0.1	0.1	
2,3,4-Trimethylpentane, ppbv	ND	0.1	0.1	
2,3-Dimethylbutane, ppbv	1.5	0.1	0.1	
2,3-Dimethylpentane, ppbv	0.3	0.1	0.1	
2,4-Dimethylpentane, ppbv	0.2	0.1	0.1	
2-Butanone (MEK), ppbv	0.6	0.1	0.1	0.3
2-Hexanone (MBK), ppbv	ND	0.1	0.1	
2-Methyl-2-propanethiol, ppbv	ND	0.1	0.1	



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2-Methylheptane, ppbv	0.3	0.1	0.1	
2-Methylhexane, ppbv	1.7	0.1	0.1	
2-Methylpentane, ppbv	13	0.1	0.1	
2-Propenal, ppbv	ND	0.1	0.1	
3-Methylheptane, ppbv	0.1	0.1	0.1	
3-Methylhexane, ppbv	1.6	0.1	0.1	
3-Methylpentane, ppbv	5.7	0.1	0.1	
Acetone, ppbv	9.6	0.1	0.1	7.7
Benzene, ppbv	2.2	0.1	0.1	
Benzyl chloride, ppbv	ND	0.1	0.1	<0.1
Bromodichloromethane, ppbv	ND	0.1	0.1	<0.1
Bromoform, ppbv	ND	0.1	0.1	<0.1
Bromomethane, ppbv	ND	0.1	0.1	<0.1
Carbon disulfide, ppbv	ND	0.1	0.1	<0.1
Carbon Tetrachloride, ppbv	ND	0.1	0.1	0.1
Chlorobenzene, ppbv	ND	0.1	0.1	<0.1
Chloroethane, ppbv	ND	0.1	0.1	<0.1
Chloroform, ppbv	ND	0.1	0.1	<0.1
Chloromethane, ppbv	0.8	0.1	0.1	0.6
cis-1,2-Dichloroethylene, ppbv	ND	0.1	0.1	
cis-1,3-Dichloropropene, ppbv	ND	0.1	0.1	
cis-2-Butene, ppbv	ND	0.1	0.1	
cis-2-Pentene, ppbv	ND	0.1	0.1	
Cyclohexane, ppbv	2.2	0.1	0.1	
Cyclopentane, ppbv	2.3	0.1	0.1	
Dibromochloromethane, ppbv	ND	0.1	0.1	<0.1
Dichlorodifluoromethane (Freon 12), ppbv	0.5	0.1	0.1	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	ND	0.1	0.1	<0.1
Ethane, ppbv	1100	0.1	0.1	
Ethanol, ppbv	2.0	0.1	0.1	7.3
Ethyl Acetate, ppbv	ND	0.1	0.1	<0.1
Ethylbenzene, ppbv	0.1	0.1	0.1	



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

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Hexachloro-1,3-butadiene, ppbv	ND	0.1	0.1	
Hexachlorobutadiene, ppbv	ND	0.1	0.1	<0.1
Isobutane, ppbv	46	0.1	0.1	
Isopentane, ppbv	42	0.1	0.1	
Isoprene, ppbv	ND	0.1	0.1	
Isopropylbenzene, ppbv	ND	0.1	0.1	
Limonene, ppbv	ND	0.1	0.1	
m+p-Xylene, ppbv	0.2	0.1	0.1	
m-Diethylbenzene, ppbv	ND	0.1	0.1	
Methyl Isobutyl Ketone (MIBK), ppbv	ND	0.1	0.1	
Methyl Methacrylate, ppbv	ND	0.1	0.1	
Methyl tert-Butyl Ether (MTBE), ppbv	ND	0.1	0.1	
Methylcyclohexane, ppbv	0.6	0.1	0.1	
Methylcyclopentane, ppbv	2.7	0.1	0.1	
Methylene Chloride, ppbv	0.1	0.1	0.1	0.2
m-Ethyltoluene, ppbv	ND	0.1	0.1	
Naphthalene, ppbv	ND	0.1	0.1	
n-Butane, ppbv	72	0.1	0.1	
n-Decane, ppbv	ND	0.1	0.1	
n-Dodecane, ppbv	ND	0.1	0.1	
n-Heptane, ppbv	5.8	0.1	0.1	
n-Hexane, ppbv	20	0.1	0.1	
n-Nonane, ppbv	ND	0.1	0.1	
n-Octane, ppbv	0.6	0.1	0.1	
n-Pentane, ppbv	60	0.1	0.1	
n-Propylbenzene, ppbv	ND	0.1	0.1	
n-Undecane, ppbv	ND	0.1	0.1	
o-Ethyltoluene, ppbv	ND	0.1	0.1	
o-Xylene, ppbv	ND	0.1	0.1	
p-Diethylbenzene, ppbv	ND	0.1	0.1	
p-Ethyltoluene, ppbv	ND	0.1	0.1	
Propane, ppbv	88	0.1	0.1	



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Analyte, Unit	Result	MDL	MRL	Ambient Avg
Propylene, ppbv	36	0.1	0.1	0.5
Styrene, ppbv	ND	0.1	0.1	
Tetrachloroethylene, ppbv	ND	0.1	0.1	
Tetrahydrofuran, ppbv	ND	0.1	0.1	<0.1
Thiophene, ppbv	ND	0.1	0.1	
Toluene, ppbv	1.7	0.1	0.1	
trans-1,2-Dichloroethylene, ppbv	ND	0.1	0.1	
trans-1,3-Dichloropropene, ppbv	ND	0.1	0.1	
trans-2-Butene, ppbv	ND	0.1	0.1	
trans-2-Pentene, ppbv	ND	0.1	0.1	
Trichloroethylene, ppbv	ND	0.1	0.1	<0.2
Trichlorofluoromethane (Freon 11), ppbv	0.2	0.1	0.1	0.2
Trichlorotrifluoroethane (Freon 113), ppbv	ND	0.1	0.1	0.1
Vinyl acetate, ppbv	ND	0.1	0.1	<0.1
Vinyl chloride, ppbv	ND	0.1	0.1	<0.1
1,1-Dichloroethene (VDC), ppbv	ND	0.1	0.1	<0.1



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

—TENTATIVELY IDENTIFIED COMPOUNDS—
CONCENTRATIONS ARE APPROXIMATED

<u>Analyte, Unit</u>	<u>Result</u>		
Cyclopentane, 1,3-dimethyl-..., ppbv	0.2	0.1	0.1
Hexane, 2,4-dimethyl, ppbv	0.2	0.1	0.1
Cyclotetrasiloxane, octamet..., ppbv	0.5	0.1	0.1

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

- DISTRICT INFORMATION
 INVOICE SOURCE
 LAP AUDIT

LABORATORY NO 1713806

TO: SCAQMD LAB: OTHER:

SOURCE NAME: HB Fire station #7 I.D. No. _____

Source Address: 3831 WARNER Ave City: Huntington Beach

Mailing Address: 2000 Main St. City: Huntington Beach Zip: 92648

Contact Person: CARL CORBIN Title: _____ Tel: (714) 318-8421

Analysis Requested by: KRAIG MORRIS Date: 5/18/17

Approved by: FREDRICK GONZALEZ Office: C&E Budget #: 60-375

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

Suspected Violation Rule(s) 402 Other

Sample Collected by: CARL CORBIN Date: 5/18/17 Time: 1030

SAMPLE DESCRIPTION:

Collection at HB Fire station #7 parking lot located at 3831 WARNER Ave. at 1030 AM on 5/18/17. Odor was similar to odor that goes through Huntington Beach. Odor smelled oil based and Rotten egg. 3 out 5 on scale of 0 to 5.
 collected in parking

REQUESTED ANALYSIS:

ID# 53478

Relinquished by	Received by	Firm/Agency	Date	Time
Kraig Morris	Carl Corbin	HB Fire Dept	3/9/17	1720
CARL CORBIN	Kraig Morris	SCAQMD	5/18/17	1305
Kraig Morris	K. de Leon	SCAQMD	5/18/17	1009

Remarks: