



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 5)

To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1724129-01
Requested By Peter Campbell

Sampling Location

HB Fire Station #2
16221 Gothard St.
Huntington Beach, CA 94647

Rule No. R402
ST No. NA
Report Created 08/31/2017

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

See attached results and sample information.

Reviewed By:

Stephen Dutz
Principal A.Q. Chemist
Laboratory Services

Date Reviewed:

08/31/17

Approved By:

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

Date Approved:

08/31/17



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Laboratory No. 1724129-01
Sample Description SUMMA Canister E3703
Sample Comments Odor sample from outside atmosphere Gothard/Murdy Circle, wind 5 mph from southwest.
Extraction Comments 100 ml sample volume used in analysis (Flag IL); High concentration analytes exceed cal curve and are estimated.

Sample Date 08/28/2017

Received Date 08/29/2017

Analyzed Date 08/30/2017

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Total NMOC, ppbC	14000	0.4	1.2	100-700
Total Calibrated, ppbC	13000	0.4	1.2	
Ethane (FID), ppbv	430	0.2	0.6	
Ethylene (FID), ppbv	0.7	0.2	0.6	0.7-4.1
Acetylene (FID), ppbv	J (0.6)	0.2	0.6	
Propane (FID), ppbv	1100	0.1	0.4	0.4-5.0
Propylene (FID), ppbv	J (0.1)	0.1	0.4	0.2-0.7
Isobutane (FID), ppbv	260	0.1	0.3	0.2-0.9
n-Butane (FID), ppbv	810	0.1	0.3	0.3-1.7
1-Butene (FID), ppbv	ND	0.1	0.3	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.1	0.3	
cis-2-Butene (FID), ppbv	ND	0.1	0.3	
Isopentane (FID), ppbv	250	0.08	0.2	
1-Pentene (FID), ppbv	ND	0.08	0.2	
n-Pentane (FID), ppbv	320	0.08	0.2	0.1-0.6
Isoprene (FID), ppbv	0.7	0.08	0.2	
trans-2-Pentene (FID), ppbv	ND	0.08	0.2	
cis-2-Pentene (FID), ppbv	ND	0.08	0.2	
2,2-Dimethylbutane (FID), ppbv	2.5	0.07	0.2	
Cyclopentane (FID), ppbv	11	0.08	0.2	
2,3-Dimethylbutane (FID), ppbv	9.9	0.07	0.2	
2-Methylpentane (FID), ppbv	60	0.07	0.2	
3-Methylpentane (FID), ppbv	44	0.07	0.2	
1-Hexene (FID), ppbv	ND	0.07	0.2	<0.1-0.1
n-Hexane (FID), ppbv	97	0.07	0.2	0.1-0.2
Methylcyclopentane (FID), ppbv	15	0.07	0.2	
2,4-Dimethylpentane (FID), ppbv	1.8	0.06	0.2	
Benzene (FID), ppbv	3.7	0.07	0.2	0.1-0.5



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Laboratory No. 1724129-01 - continued
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Sample Date 08/28/2017

Received Date 08/29/2017

Analyzed Date 08/30/2017

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Cyclohexane (FID), ppbv	7.8	0.07	0.2	
2-Methylhexane (FID), ppbv	4.3	0.06	0.2	
2,3-Dimethylpentane (FID), ppbv	11	0.06	0.2	
3-Methylhexane (FID), ppbv	13	0.06	0.2	
2,2,4-Trimethylpentane (FID), ppbv	2.5	0.05	0.2	
n-Heptane (FID), ppbv	26	0.06	0.2	0.1-0.2
Methylcyclohexane (FID), ppbv	6.5	0.06	0.2	
2,3,4-Trimethylpentane (FID), ppbv	J (0.2)	0.05	0.2	
Toluene (FID), ppbv	3.9	0.06	0.2	0.1-0.6
2-Methylheptane (FID), ppbv	3.6	0.05	0.2	
3-Methylheptane (FID), ppbv	3.0	0.05	0.2	
n-Octane (FID), ppbv	5.8	0.05	0.2	<0.1-0.3
Ethylbenzene (FID), ppbv	0.5	0.05	0.2	0.1-0.2
m+p-Xylene (FID), ppbv	2.0	0.05	0.2	0.1-0.2
Styrene (FID), ppbv	J (0.05)	0.05	0.2	<0.1-0.2
o-Xylene (FID), ppbv	0.4	0.05	0.2	0.1-0.2
n-Nonane (FID), ppbv	1.4	0.04	0.1	<0.1-0.1
Isopropylbenzene (FID), ppbv	J (0.1)	0.04	0.1	
n-Propylbenzene (FID), ppbv	J (0.06)	0.04	0.1	
m-Ethyltoluene (FID), ppbv	0.2	0.04	0.1	
p-Ethyltoluene (FID), ppbv	J (0.09)	0.04	0.1	
1,3,5-Trimethylbenzene (FID), ppbv	J (0.1)	0.04	0.1	
o-Ethyltoluene (FID), ppbv	J (0.09)	0.04	0.1	
1,2,4-Trimethylbenzene (FID), ppbv	J (0.06)	0.04	0.1	
n-Decane (FID), ppbv	0.2	0.04	0.1	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	ND	0.04	0.1	
m-Diethylbenzene (FID), ppbv	ND	0.04	0.1	
p-Diethylbenzene (FID), ppbv	ND	0.04	0.1	



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Laboratory No. 1724129-01 - continued
Sample Description SUMMA Canister E3703
Sample Comments Odor sample from outside atmosphere Gothard/Murdy Circle, wind 5 mph from southwest.
Extraction Comments 100 ml sample volume used in analysis (Flag IL); High concentration analytes exceed cal curve and are estimated.
Sample Date 08/28/2017 **Received Date 08/29/2017** **Analyzed Date 08/30/2017**

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
n-Undecane (FID), ppbv	J (0.06)	0.04	0.1	<0.1
n-Dodecane (FID), ppbv	ND	0.03	0.1	<0.1

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

DISTRICT
 INVOICE
LABORATORY



TO: SCAQMD LAB: OTHER:
SOURCE NAME: HB Fire Station #2 I.D. No. _____
Source Address: 16221 Gothard St. City: Huntington Beach
Mailing Address: 2000 Main St. City: Huntington Beach Zip: 92648-9464 *ke*
Contact Person: Rex Ryswyk Title: Fire Captain Tel: (760) 468-0911

Analysis Requested by: Peter Campbell Date: 8/29/17
Approved by: Fred Gonzalez Office: Compliance Budget #: 60375
REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
Suspected Violation Rule(s) 402 Other

Sample Collected by: Ryswyk Date: 8/28/17 Time: 1130

SAMPLE DESCRIPTION

Odor sample from outside atmosphere
Gothard / Murdy Circle
wind 5mph from south west

canister E3703

Analysis Requested: VOC

Relinquished by	Received by	Firm/Agency	Date	Time
Peter Campbell	C. Schmelzer	SCAQMD Lab	8/29/17	11:56

Remarks: