



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 4)

To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1804002-01
Requested By Kraig Morris

Sampling Location

HB Fire Dept #6
Seapoint & Garfield
Huntington Beach, CA


Rule No. R402
ST No. NA
Report Created 02/21/2018

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: _____

02/21/18

Approved By: _____


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

Date Approved: _____

2/21/18



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

**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

(Page 2 of 4)

Laboratory No. 1804002-01
Sample Description SUMMA Canister 54608
Sample Comments High concentration analytes should be viewed as estimates.
Sample Date 02/08/2018 **Received Date 02/09/2018** **Analyzed Date 02/10/2018**

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	8100	0.1	0.3	100-700
Total Calibrated, ppbC	8000	0.1	0.3	
Ethane (FID), ppbv	310	0.05	0.2	
Ethylene (FID), ppbv	1.6	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	1.7	0.05	0.2	
Propane (FID), ppbv	820	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	0.3	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	170	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	500	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	1.5	0.02	0.08	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.02	0.08	
cis-2-Butene (FID), ppbv	ND	0.02	0.08	
Isopentane (FID), ppbv	130	0.02	0.06	
1-Pentene (FID), ppbv	<i>J (0.06)</i>	0.02	0.06	
n-Pentane (FID), ppbv	150	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	0.2	0.02	0.06	
trans-2-Pentene (FID), ppbv	<i>J (0.03)</i>	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	1.1	0.02	0.05	
Cyclopentane (FID), ppbv	4.5	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	4.3	0.02	0.05	
2-Methylpentane (FID), ppbv	25	0.02	0.05	
3-Methylpentane (FID), ppbv	18	0.02	0.05	
1-Hexene (FID), ppbv	ND	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	39	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	6.0	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	0.8	0.01	0.04	
Benzene (FID), ppbv	1.6	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	3.0	0.02	0.05	
2-Methylhexane (FID), ppbv	1.7	0.01	0.04	
2,3-Dimethylpentane (FID), ppbv	4.1	0.01	0.04	



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 3 of 4)

Laboratory No. 1804002-01 - continued
Sample Description SUMMA Canister 54608
Sample Comments High concentration analytes should be viewed as estimates.
Sample Date 02/08/2018 **Received Date 02/09/2018** **Analyzed Date 02/10/2018**

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>
3-Methylhexane (FID), ppbv	5.0	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	1.1	0.01	0.04	
n-Heptane (FID), ppbv	9.5	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	2.6	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	0.1	0.01	0.04	
Toluene (FID), ppbv	1.9	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	1.3	0.01	0.04	
3-Methylheptane (FID), ppbv	0.9	0.01	0.04	
n-Octane (FID), ppbv	2.2	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	0.3	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	0.9	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	0.07	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	0.2	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	0.6	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.07	0.01	0.03	
n-Propylbenzene (FID), ppbv	0.04	0.01	0.03	
m-Ethyltoluene (FID), ppbv	0.1	0.01	0.03	
p-Ethyltoluene (FID), ppbv	0.04	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	0.06	0.01	0.03	
o-Ethyltoluene (FID), ppbv	0.06	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	0.1	0.01	0.03	
n-Decane (FID), ppbv	0.2	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	0.04	0.01	0.03	
m-Diethylbenzene (FID), ppbv	J (0.01)	0.01	0.03	
p-Diethylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
n-Undecane (FID), ppbv	0.04	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	J (0.01)	0.008	0.02	<0.1

* J = Value is between method detection and reporting limits.

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

- DISTRICT INFORMATION
- INVOICE SOURCE
- LAP AUDIT

LABORATORY NO 1804002

TO: SCAQMD LAB: OTHER:

SOURCE NAME: HB Fire Dept. #6 I.D. No. _____

Source Address: Seapoint of Garfield City: Huntington Beach

Mailing Address: _____ City: _____ Zip: _____

Contact Person: Capt. Pokorny Title: Captain Tel: (714) 375.8400

Analysis Requested by: Kraig Morris Date: 2/9/18

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: Keita Sato Date: 2/8/18 Time: 1200

SAMPLE DESCRIPTION:

Sample was collected at Seapoint of Garfield in Huntington Beach. Odor was sulfur smell with an intensity of 5 out of 5. Wind direction from West.

REQUESTED ANALYSIS:

VOC Analysis
Sample can ID# 54608

Relinquished by	Received by	Firm/Agency	Date	Time
Keita Sato	Kraig Morris	SCAQMD	2/9/18	0820
Kraig Morris	H Phillipson	SCAQMD Lab	2/9/18	0955

Remarks: