



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. 1729101-01
Requested By Peter Campbell

Sampling Location

Various Sampling Locations
Warner/Newland
Huntington Beach, CA

Rule No. 402
ST No. NA
Report Created 11/07/2017

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:

11/07/17

Approved By:

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

Date Approved:

11/7/17



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. 1729101-01
Sample Description SUMMA Canister 54504
Sample Comments Detected petroleum/sulfur odor. Intensity 1-2. Winds 2-3 mph SW.
Sample Date 10/17/2017 **Received Date 10/18/2017** **Analyzed Date 10/26/2017**

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	1000	0.3	0.8	100-700
Total Calibrated, ppbC	970	0.3	0.8	
Ethane (FID), ppbv	29	0.1	0.4	
Ethylene (FID), ppbv	0.5	0.1	0.4	0.7-4.1
Acetylene (FID), ppbv	0.5	0.1	0.4	
Propane (FID), ppbv	78	0.08	0.3	0.4-5.0
Propylene (FID), ppbv	J (0.2)	0.08	0.3	0.2-0.7
Isobutane (FID), ppbv	19	0.06	0.2	0.2-0.9
n-Butane (FID), ppbv	60	0.06	0.2	0.3-1.7
1-Butene (FID), ppbv	J (0.06)	0.06	0.2	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.06	0.2	
cis-2-Butene (FID), ppbv	ND	0.06	0.2	
Isopentane (FID), ppbv	21	0.05	0.2	
1-Pentene (FID), ppbv	J (0.05)	0.05	0.2	
n-Pentane (FID), ppbv	21	0.05	0.2	0.1-0.6
Isoprene (FID), ppbv	J (0.2)	0.05	0.2	
trans-2-Pentene (FID), ppbv	J (0.08)	0.05	0.2	
cis-2-Pentene (FID), ppbv	ND	0.05	0.2	
2,2-Dimethylbutane (FID), ppbv	0.2	0.04	0.1	
Cyclopentane (FID), ppbv	0.7	0.05	0.2	
2,3-Dimethylbutane (FID), ppbv	0.7	0.04	0.1	
2-Methylpentane (FID), ppbv	3.9	0.04	0.1	
3-Methylpentane (FID), ppbv	2.8	0.04	0.1	
1-Hexene (FID), ppbv	ND	0.04	0.1	<0.1-0.1
n-Hexane (FID), ppbv	6.0	0.04	0.1	0.1-0.2
Methylcyclopentane (FID), ppbv	1.0	0.04	0.1	
2,4-Dimethylpentane (FID), ppbv	0.2	0.04	0.1	
Benzene (FID), ppbv	0.4	0.04	0.1	0.1-0.5
Cyclohexane (FID), ppbv	0.5	0.04	0.1	
2-Methylhexane (FID), ppbv	0.3	0.04	0.1	
2,3-Dimethylpentane (FID), ppbv	0.7	0.04	0.1	



**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. 1729101-01 - continued
Sample Description SUMMA Canister 54504
Sample Comments Detected petroleum/sulfur odor. Intensity 1-2. Winds 2-3 mph SW.
Sample Date 10/17/2017 **Received Date 10/18/2017** **Analyzed Date 10/26/2017**

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>
3-Methylhexane (FID), ppbv	0.8	0.04	0.1	
2,2,4-Trimethylpentane (FID), ppbv	0.3	0.03	0.1	
n-Heptane (FID), ppbv	1.6	0.04	0.1	0.1-0.2
Methylcyclohexane (FID), ppbv	0.4	0.04	0.1	
2,3,4-Trimethylpentane (FID), ppbv	J (0.04)	0.03	0.1	
Toluene (FID), ppbv	0.6	0.04	0.1	0.1-0.6
2-Methylheptane (FID), ppbv	0.2	0.03	0.1	
3-Methylheptane (FID), ppbv	0.2	0.03	0.1	
n-Octane (FID), ppbv	0.4	0.03	0.1	<0.1-0.3
Ethylbenzene (FID), ppbv	0.2	0.03	0.1	0.1-0.2
m+p-Xylene (FID), ppbv	0.4	0.03	0.1	0.1-0.2
Styrene (FID), ppbv	ND	0.03	0.1	<0.1-0.2
o-Xylene (FID), ppbv	0.3	0.03	0.1	0.1-0.2
n-Nonane (FID), ppbv	0.2	0.03	0.08	<0.1-0.1
Isopropylbenzene (FID), ppbv	ND	0.03	0.08	
n-Propylbenzene (FID), ppbv	ND	0.03	0.08	
m-Ethyltoluene (FID), ppbv	J (0.05)	0.03	0.08	
p-Ethyltoluene (FID), ppbv	ND	0.03	0.08	
1,3,5-Trimethylbenzene (FID), ppbv	J (0.03)	0.03	0.08	
o-Ethyltoluene (FID), ppbv	ND	0.03	0.08	
1,2,4-Trimethylbenzene (FID), ppbv	J (0.06)	0.03	0.08	
n-Decane (FID), ppbv	J (0.06)	0.03	0.08	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	J (0.03)	0.03	0.08	
m-Diethylbenzene (FID), ppbv	ND	0.03	0.08	
p-Diethylbenzene (FID), ppbv	ND	0.03	0.08	
n-Undecane (FID), ppbv	ND	0.02	0.07	<0.1
n-Dodecane (FID), ppbv	ND	0.02	0.06	<0.1

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

DISTRICT INFORMATION
 INVOICE SOURCE
 LABORATORY NO. 1729101

TO: SCAQMD LAB: OTHER:

SOURCE NAME: N/A I.D. No. _____

Source Address: _____ City: _____

Mailing Address: _____ City: _____ Zip: _____

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: Peter Campbell Date: 10/18/17

Approved by: [Signature] Office: Compliance Budget #: 50375

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

Suspected Violation Rule(s) 402 Other

Sample Collected by: Peter Campbell Date: 10/17/17 Time: 1725

Specify the description and location where the sample was collected:
Detected petroleum/sulfur odor at intersection of Warner & Newland
in Huntington Beach. Intensity 1-2, winds 2-3mph SW

Cannister #54504

Analysis Requested: VOC

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Kraig Morris</u>	<u>Peter Campbell</u>	<u>SCAQMD</u>	<u>9/15/17</u>	
<u>Peter Campbell</u>	<u>HPhillips</u>	<u>SCAQMD</u>	<u>10/18/17</u>	<u>1035</u>

Remarks: