



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: Rafael Reynosa
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1822708-02
Requested By Nydia Ibarra
Rule No. R402
ST No. NA
Report Created 10/04/2018

Sampling Location
Various Sampling Locations

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:

10/04/18

Approved By:

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

Date Approved:

10/5/18



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Laboratory No. 1822708-02
Sample Description SUMMA Canister 54706
Sample Comments Collected at 2020 hours, breathing zone, near Shoreline Dr./Shoreline Village Dr. parking

Sample Date 08/14/2018

Received Date 08/15/2018

Analyzed Date 08/24/2018

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	59	0.1	0.3	100-700
Total Calibrated, ppbC	31	0.1	0.3	
Ethane (FID), ppbv	1.4	0.05	0.2	
Ethylene (FID), ppbv	0.5	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	<i>J (0.2)</i>	0.05	0.2	
Propane (FID), ppbv	0.6	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	0.2	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	0.3	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	0.4	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	<i>J (0.06)</i>	0.02	0.08	0.1-0.3
trans-2-Butene (FID), ppbv	<i>J (0.03)</i>	0.02	0.08	
cis-2-Butene (FID), ppbv	<i>J (0.03)</i>	0.02	0.08	
Isopentane (FID), ppbv	1.3	0.02	0.06	
1-Pentene (FID), ppbv	<i>J (0.04)</i>	0.02	0.06	
n-Pentane (FID), ppbv	0.3	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	<i>J (0.03)</i>	0.02	0.06	
trans-2-Pentene (FID), ppbv	<i>J (0.04)</i>	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	<i>J (0.02)</i>	0.02	0.05	
Cyclopentane (FID), ppbv	<i>J (0.03)</i>	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	<i>J (0.03)</i>	0.02	0.05	
2-Methylpentane (FID), ppbv	<i>J (0.02)</i>	0.02	0.05	
3-Methylpentane (FID), ppbv	0.08	0.02	0.05	
1-Hexene (FID), ppbv	<i>J (0.02)</i>	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	0.1	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	0.08	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	<i>J (0.04)</i>	0.01	0.04	
Benzene (FID), ppbv	0.07	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	<i>J (0.04)</i>	0.02	0.05	
2-Methylhexane (FID), ppbv	0.05	0.01	0.04	



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Laboratory No. 1822708-02 - continued
Sample Description SUMMA Canister 54706
Sample Comments Collected at 2020 hours, breathing zone, near Shoreline Dr./Shoreline Village Dr. parking

Sample Date 08/14/2018

Received Date 08/15/2018

Analyzed Date 08/24/2018

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>
2,3-Dimethylpentane (FID), ppbv	J (0.04)	0.01	0.04	
3-Methylhexane (FID), ppbv	0.1	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	0.07	0.01	0.04	
n-Heptane (FID), ppbv	0.07	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	0.06	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	J (0.02)	0.01	0.04	
Toluene (FID), ppbv	0.2	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	J (0.03)	0.01	0.04	
3-Methylheptane (FID), ppbv	J (0.02)	0.01	0.04	
n-Octane (FID), ppbv	0.05	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	J (0.03)	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	0.1	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	J (0.03)	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	0.06	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	J (0.03)	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
n-Propylbenzene (FID), ppbv	J (0.01)	0.01	0.03	
m-Ethyltoluene (FID), ppbv	J (0.03)	0.01	0.03	
p-Ethyltoluene (FID), ppbv	J (0.01)	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
o-Ethyltoluene (FID), ppbv	J (0.02)	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	0.08	0.01	0.03	
n-Decane (FID), ppbv	J (0.03)	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	J (0.01)	0.01	0.03	
m-Diethylbenzene (FID), ppbv	ND	0.01	0.03	
p-Diethylbenzene (FID), ppbv	J (0.01)	0.01	0.03	
n-Undecane (FID), ppbv	J (0.01)	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	J (0.01)	0.008	0.02	<0.1



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Laboratory No.	1822708-02 - continued		
Sample Description	SUMMA Canister 54706		
Sample Comments	Collected at 2020 hours, breathing zone, near Shoreline Dr./Shoreline Village Dr. parking		
Sample Date 08/14/2018	Received Date 08/15/2018		Analyzed Date 08/24/2018

Qualifiers

ND = Non-detect

J = Value is between method detection and reporting limits.

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

DISTRICT INFORMATION
 INVOICE SOURCE
 LABORATORY NO. 1822708

TO: SCAQMD LAB: OTHER: _____
 SOURCE NAME: C#290243; C#290251 ; Offshore Odors event I.D. No. _____
 8/14/18
 Source Address: _____ City: Long Beach
 Mailing Address: _____ City: _____ Zip: _____
 Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: Nydia Ibarra Date: August 14, 2018
 Approved by: *[Signature]* Office: Compliance Budget #: 60-375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other Cal H&S Code 41700

Sample Collected by: Nydia Ibarra Date: August 14, 2018 Time: See below

Specify the description and location where the sample was collected:
 Sample #1- Tedlar Bag S/N: 150527- collected at 2016 hours; breathing zone (near Shoreline Dr./Shoreline Village Dr. parking); approx. GPS coordinates 33°45'39"N, 118°11'33"W.
 Sample #2 Summa Canister: #54706- collected at 2020 hours; breathing zone (near Shoreline Dr./Shoreline Village Dr. parking); approx. GPS coordinates 33°45'39"N, 118°11'33"W.

Analysis Requested: H2S/VOC/ GCMS/Odors/ Please Speciate/Quantify Unknown Gas

Relinquished by	Received by	Firm/Agency	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	SCAQMD	8/14/18	23:03 hrs
<i>[Signature]</i>	<i>[Signature]</i>	SCAQMD Lab	8/15/18 07:16/10 IG	10:00 AM

Remarks: Please expedite and send laboratory results to Rafael Reynosa, Sr. Enforcement Manager