



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: Marian Coleman
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1708705-01

Requested By Kraig Morris

Sampling Location

HB Fire Station #8 (Springdale & Heil)
5891 Heil Ave.
Huntington Beach, CA 92649

Rule No. R402

ST No. NA

Report Created 06/02/2017

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:

06/02/17

Approved By:

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

Date Approved:

6/2/17



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REPORT OF LABORATORY ANALYSIS

(Page 2 of 4)

Laboratory No. 1708705-01
Sample Description SUMMA Canister 53472
Sample Comments Natural Gas Odor in the area of Heil/ Bolsa Chica. The smell had a small amount of rotten egg odor and was 3/5 intensity, NW wind.
Sample Date 03/27/2017 **Received Date 03/28/2017** **Analyzed Date 04/12/2017**

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 | 3500 | 0.1 | 0.3 | 100-700 |
| Total Calibrated, ppbC | 1500 | 0.1 | 0.3 | |
| Ethane (FID), ppbv | 170 | 0.1 | 0.3 | |
| Ethylene (FID), ppbv | 0.6 | 0.1 | 0.3 | 0.7-4.1 |
| Acetylene (FID), ppbv | 0.7 | 0.1 | 0.3 | |
| Propane (FID), ppbv | ND | 0.1 | 0.3 | 0.4-5.0 |
| Propylene (FID), ppbv | J (0.1) | 0.1 | 0.3 | 0.2-0.7 |
| Isobutane (FID), ppbv | 71 | 0.1 | 0.3 | 0.2-0.9 |
| n-Butane (FID), ppbv | ND | 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 | 52 | 0.1 | 0.3 | |
| 1-Pentene (FID), ppbv | ND | 0.1 | 0.3 | |
| n-Pentane (FID), ppbv | 60 | 0.1 | 0.3 | 0.1-0.6 |
| Isoprene (FID), ppbv | 0.9 | 0.1 | 0.3 | |
| trans-2-Pentene (FID), ppbv | ND | 0.1 | 0.3 | |
| cis-2-Pentene (FID), ppbv | ND | 0.1 | 0.3 | |
| 2,2-Dimethylbutane (FID), ppbv | 0.4 | 0.1 | 0.3 | |
| Cyclopentane (FID), ppbv | 1.8 | 0.1 | 0.3 | |
| 2,3-Dimethylbutane (FID), ppbv | 1.7 | 0.1 | 0.3 | |
| 2-Methylpentane (FID), ppbv | 9.8 | 0.1 | 0.3 | |
| 3-Methylpentane (FID), ppbv | 7.1 | 0.1 | 0.3 | |
| 1-Hexene (FID), ppbv | ND | 0.1 | 0.3 | <0.1-0.1 |
| n-Hexane (FID), ppbv | 15 | 0.1 | 0.3 | 0.1-0.2 |
| Methylcyclopentane (FID), ppbv | 2.3 | 0.1 | 0.3 | |
| 2,4-Dimethylpentane (FID), ppbv | J (0.3) | 0.1 | 0.3 | |
| Benzene (FID), ppbv | 0.7 | 0.1 | 0.3 | 0.1-0.5 |
| Cyclohexane (FID), ppbv | 1.2 | 0.1 | 0.3 | |
| 2-Methylhexane (FID), ppbv | 0.6 | 0.1 | 0.3 | |



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Laboratory No. 1708705-01 - continued
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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 | 1.6 | 0.1 | 0.3 | |
| 3-Methylhexane (FID), ppbv | 1.9 | 0.1 | 0.3 | |
| 2,2,4-Trimethylpentane (FID), ppbv | 0.4 | 0.1 | 0.3 | |
| n-Heptane (FID), ppbv | 3.6 | 0.1 | 0.3 | 0.1-0.2 |
| Methylcyclohexane (FID), ppbv | 0.9 | 0.1 | 0.3 | |
| 2,3,4-Trimethylpentane (FID), ppbv | ND | 0.1 | 0.3 | |
| Toluene (FID), ppbv | 0.7 | 0.1 | 0.3 | 0.1-0.6 |
| 2-Methylheptane (FID), ppbv | 0.5 | 0.1 | 0.3 | |
| 3-Methylheptane (FID), ppbv | 0.4 | 0.1 | 0.3 | |
| n-Octane (FID), ppbv | 0.7 | 0.1 | 0.3 | <0.1-0.3 |
| Ethylbenzene (FID), ppbv | <i>J (0.1)</i> | 0.1 | 0.3 | 0.1-0.2 |
| m+p-Xylene (FID), ppbv | 0.4 | 0.1 | 0.3 | 0.1-0.2 |
| Styrene (FID), ppbv | ND | 0.1 | 0.3 | <0.1-0.2 |
| o-Xylene (FID), ppbv | ND | 0.1 | 0.3 | 0.1-0.2 |
| n-Nonane (FID), ppbv | <i>J (0.2)</i> | 0.1 | 0.3 | <0.1-0.1 |
| Isopropylbenzene (FID), ppbv | ND | 0.1 | 0.3 | |
| n-Propylbenzene (FID), ppbv | ND | 0.1 | 0.3 | |
| m-Ethyltoluene (FID), ppbv | ND | 0.1 | 0.3 | |
| p-Ethyltoluene (FID), ppbv | ND | 0.1 | 0.3 | |
| 1,3,5-Trimethylbenzene (FID), ppbv | ND | 0.1 | 0.3 | |
| o-Ethyltoluene (FID), ppbv | ND | 0.1 | 0.3 | |
| 1,2,4-Trimethylbenzene (FID), ppbv | ND | 0.1 | 0.3 | |
| n-Decane (FID), ppbv | ND | 0.1 | 0.3 | <0.1-0.1 |
| 1,2,3-Trimethylbenzene (FID), ppbv | ND | 0.1 | 0.3 | |
| m-Diethylbenzene (FID), ppbv | ND | 0.1 | 0.3 | |
| p-Diethylbenzene (FID), ppbv | ND | 0.1 | 0.3 | |
| n-Undecane (FID), ppbv | ND | 0.1 | 0.3 | <0.1 |
| n-Dodecane (FID), ppbv | ND | 0.1 | 0.3 | <0.1 |

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

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

DISTRICT
 INVOICE S
 LAP AUDI
 LABORATC



TO: SCAQMD LAB: OTHER:
 SOURCE NAME: #8 Fire station #8 (Springdale of Heil) I.D. No. _____
 Source Address: Heil & Bolsa Chica City: Huntington Beach
 Mailing Address: _____ City: _____ Zip: _____
 Contact Person: KANE JOHNSON Title: Fire personnel Tel: (714) 536-5464

Analysis Requested by: Kraig Morris Date: 3/28/17
 Approved by: Julinda Ely 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: KANE JOHNSON Date: 3/27/17 Time: 12:55

SAMPLE DESCRIPTION:

NATURAL GAS ODOR IN THE AREA OF HEIL/BOLSA CHICA.
 THE SMELL HAD A SMALL AMOUNT OF ROTTEN EGG ODOR AND WAS
 A 3/5 ON THE INTENSITY. NW WIND.

ID# 53472

REQUESTED ANALYSIS: VOC

| Relinquished by | Received by | Firm/Agency | Date | Time |
|---------------------|-------------------|-------------------|----------------|--------------|
| <u>Kraig M.</u> | <u>R. RYSEWIC</u> | <u>MOPD</u> | <u>3-24-17</u> | <u>16:40</u> |
| <u>KANE JOHNSON</u> | <u>Kraig M.</u> | <u>SCAQMD</u> | <u>3/28/17</u> | <u>0800</u> |
| <u>Kraig Morris</u> | <u>V. Vergara</u> | <u>SCAQMD Lab</u> | <u>3/28/17</u> | <u>0941</u> |

Remarks: