

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

MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS

TO: Edwin Pupka
Sr Enforcement Manager

LABORATORY NO: 1531616

REFERENCE NO: GC6-3-63

SAMPLE DESCRIPTION:
Canister 54084

DATE SAMPLED: 11/12/15

DATE RECEIVED: 11/12/15

DATE ANALYZED: 11/13/15

SAMPLE LOCATION:
So. Cal. Gas Aliso Canyon
12801 Tampa Ave
Northridge, CA 91326

ANALYZED BY: Yang Song

REQUESTED BY: Martha Thomas

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS


Volatile Organic Compounds (VOC) by Gas Chromatography (GC)
and Flame Ionization Detection (FID)

| <u>Canister</u> | <u>NMOC (ppbC)</u> |
|-----------------|--------------------|
| 54084 | 900 |

Note: See attached for speciated results.

Date Approved: 11/20/15

Approved By: _____


Rudy Eden, Sr. Manager
Laboratory Services Branch
(909) 396-2391

LAB NO: 1531616

Location: So Cal Gas Company
Aliso Canyon

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and
Flame Ionization Detection (FID)

| | | |
|------------------------------|--------------------|--------------------|
| Sample Date | 11/12/15 | |
| Canister | 54084 | Ambient Air |
| Sampling Location | So Cal Gas Company | |
| Identified NMOC, ppbC | 130 | |
| Total NMOC, ppbC | 900 | 100-700 ppbC |

| <u>Compound</u> | <u>Conc. (ppbv)</u> | <u>Conc. (ppbv)</u> |
|------------------------|----------------------------|----------------------------|
| ethylene | 0.5 | 0.7-4.1 |
| acetylene | 0.5 | |
| propane | 25 | 0.4-5.0 |
| propylene | 0.2 | 0.2-0.7 |
| isobutane | 2.5 | 0.2-0.9 |
| n-butane | 2.9 | 0.3-1.7 |
| 1-butene | 0.1 | 0.1-0.3 |
| trans-2-butene | <0.1 | |
| cis-2-butene | <0.1 | |
| isopentane | 2.0 | |
| 1-pentene | <0.1 | |
| n-pentane | 0.6 | 0.1-0.6 |
| isoprene | <0.1 | |
| trans-2-pentene | N.D. | |
| cis-2-pentene | N.D. | |
| 2,2-dimethylbutane | <0.1 | |
| cyclopentane | <0.1 | |
| 2,3-dimethylbutane | <0.1 | |
| 2-methylpentane | 0.2 | |
| 3-methylpentane | <0.1 | |
| 1-hexene | <0.1 | <0.1-0.1 |
| n-hexane | 0.2 | 0.1-0.2 |
| methylcyclopentane | 0.2 | |
| 2,4-dimethylpentane | <0.1 | |
| benzene | 0.2 | 0.1-0.5 |
| cyclohexane | 0.2 | |
| 2-methylhexane | <0.1 | |
| 2,3-dimethylpentane | <0.1 | |
| 3-methylhexane | <0.1 | |
| 2,2,4-trimethylpentane | <0.1 | |
| n-heptane | <0.1 | 0.1-0.2 |

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| <u>Compound</u> | <u>Conc. (ppbv)</u> | <u>Conc. (ppbv)</u> |
|------------------------|---------------------|---------------------|
| methylcyclohexane | 0.2 | |
| 2,3,4-trimethylpentane | <0.1 | |
| toluene | 0.2 | 0.1-0.6 |
| 2-methylheptane | <0.1 | |
| 3-methylheptane | <0.1 | |
| n-octane | <0.1 | <0.1-0.3 |
| ethylbenzene | <0.1 | 0.1-0.2 |
| m+p-xylenes | <0.1 | 0.1-0.2 |
| Styrene | <0.1 | <0.1-0.2 |
| o-xylene | <0.1 | 0.1-0.2 |
| n-nonane | <0.1 | <0.1-0.1 |
| isopropylbenzene | <0.1 | |
| n-propylbenzene | <0.1 | |
| m-ethyltoluene | <0.1 | |
| p-ethyltoluene | N.D. | |
| 1,3,5-trimethylbenzene | <0.1 | |
| o-ethyltoluene | N.D. | |
| 1,2,4-trimethylbenzene | <0.1 | |
| n-decane | <0.1 | <0.1-0.1 |
| 1,2,3-trimethylbenzene | <0.1 | |
| m-diethylbenzene | <0.1 | |
| p-diethylbenzene | <0.1 | |
| n-undecane | <0.1 | <0.1 |
| n-dodecane | <0.1 | <0.1 |

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

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

DISTRICT INFORMATION
 INVOICE SOURCE
 LABORATORY NO. K31616

TO: SCAQMD LAB: OTHER:

SOURCE NAME: So Cal Gas Aliso Canyon I.D. No. 800128

Source Address: 12801 Tampa Ave. City: Porter Ranch

Mailing Address: 12801 Tampa Ave. City: Porter Ranch Zip: 91326

Contact Person: John Clarke Title: Principal AQ Specialist Tel: 818-661-7335

Analysis Requested by: Martha Thomas Date: 11/12/15

Approved by: Ch. Rose Office: Compliance Budget #: 50-375

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

Suspected Violation Rule(s) Other Gas Leak

Sample Collected by: Martha Thomas Date: 11/12/15 Time: 1325hrs

Specify the description and location where the sample was collected:
Taken from parking lot on [redacted] is south of Aliso Canyon and odors were strong and I was downwind. Taken in canister #54084

Analysis Requested: GC-MS for odorous compounds

| Relinquished by | Received by | Firm/Agency | Date | Time |
|------------------|-------------|-------------------|-----------------|--------------|
| <u>M. Thomas</u> | <u>JL</u> | <u>SCAQMD LAB</u> | <u>11/12/15</u> | <u>16:51</u> |
| | | | | |
| | | | | |

Remarks: Please expedite immediately violation pending
Thanks Buddy. Ed