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

**MONITORING & ANALYSIS**
**REPORT OF LABORATORY ANALYSIS**

**TO:** Jason Low, Ph.D.
Atmospheric Measurements Manager
Science and Technology Advancement

**SAMPLE DESCRIPTION:**
24 hour Sample
Canister # 54130

**SAMPLE LOCATION:**
Castlebay Elementary School

**LABORATORY NO:** 1617803
**REFERENCE NO:** GC6-121-102
**DATE SAMPLED:** 06/26/16
**DATE RECEIVED:** 06/27/16
**DATE ANALYZED:** 06/28/16
**ANALYZED BY:** Yang Song
**REQUESTED BY:** Sumner Wilson

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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**
Volatile Organic Compounds (VOC) by Gas Chromatography(GC)
and Flame Ionization Detection (FID)

Note: See attached for speciated results.

Date Approved: 7/5/16 Approved By: Solomon Teffera

Solomon Teffera, Acting Sr. Manager
Laboratory Services Branch
(909) 396-2199

H:\Ambient VOCs\00toxPAMS\2016 PAMS\Special Projects\LN1617803_Gas_YS_RD

**LAB NO: 1617803**
**Location: Castlebay Elementary School**

## ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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

| | | |
|---|---|---|
| Sample Date | 06/26/16 | |
| Canister | 54130 | |
| **Sampling Location** | **Castlebay Elementary School** | **Ambient Air** |
| **Total NMOC, ppbC** | 79 | 100-700 ppbC |
| **Compound** | **Conc. (ppbv)** | **Conc. (ppbv)** |
| ethylene | 1.0 | 0.7-4.1 |
| acetylene | 0.9 | |
| propane | 2.1 | 0.4-5.0 |
| propylene | 0.2 | 0.2-0.7 |
| isobutane | 0.4 | 0.2-0.9 |
| n-butane | 0.6 | 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 | 0.3 | 0.1-0.6 |
| isoprene | 0.4 | |
| trans-2-pentene | <0.1 | |
| cis-2-pentene | <0.1 | |
| 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 | 0.1 | 0.1-0.2 |
| methylcyclopentane | 0.1 | |
| 2,4-dimethylpentane | <0.1 | |
| benzene | 0.2 | 0.1-0.5 |
| cyclohexane | <0.1 | |
| 2-methylhexane | <0.1 | |
| 2,3-dimethylpentane | <0.1 | |
| 3-methylhexane | <0.1 | |
| 2,2,4-trimethylpentane | 0.2 | |
| n-heptane | <0.1 | 0.1-0.2 |
| methylcyclohexane | <0.1 | |

**LAB NO: 1617803**
**Location: Castlebay Elementary School**

## ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

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Flame Ionization Detection (FID)

| | | |
|---|---|---|
| Sample Date | 06/26/16 | |
| Canister | 54130 | |
| **Sampling Location** | **Castlebay Elementary School** | **Ambient Air** |
| **Total NMOC, ppbC** | 79 | 100-700 ppbC |
| **Compound** | **Conc. (ppbv)** | **Conc. (ppbv)** |
| 2,3,4-trimethylpentane | <0.1 | |
| toluene | 0.4 | 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 | <0.1 | |
| 1,3,5-trimethylbenzene | <0.1 | |
| o-ethyltoluene | <0.1 | |
| 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**

☒ DISTI
☐ INVO
☐ LAP
LABOR

**WO #: 1617803**

TO: SCAQMD LAB: ☒ OTHER: ☐ _____

SOURCE NAME: Southern California Gas Co. I.D. No. _____

Source Address: 12801 Tampa Ave City: Porter Ranch

Mailing Address: _____ City: _____ Zip: 91326

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: Sumner Wilson Date: 6/27/16

Approved by: Jason Low Office: _____ Budget #: 44716

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

Suspected Violation Rule(s) _____ Other ☐ _____

Sample Collected by: Qian Zhou Date: 6/27/16 Time: 11:10am

REQUESTED ANALYSIS: PAMS analysis

| City/Location | Can# | Start day / time/ duration | Start vac | End Press |
|---|---|---|---|---|
| Porter Ranch / Castlebay Elem | 54130 | 6/26/16 / 00:00 / 24 hours | -30" | +17 |
| | | | | |
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| | | | | |
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| Relinquished by | Received by | Firm/Agency | Date | Time |
|---|---|---|---|---|
| Zhuqian | C Fritt | SCAQMD Lab | 6/27/16 | 13:40 |
| | | | | |
| | | | | |

Remarks: 1:3 scheduled samples from trailer at Castlebay

Castlebay Lane Charter School – 19010 Castlebay Ln, Porter Ranch, CA

Right sampler, sn 4671