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

LABORATORY NO: 1618729
REFERENCE NO: GC6-121-103

SAMPLE DESCRIPTION:
24 hour Sample
Canister # 22492

DATE SAMPLED: 07/05/16
DATE RECEIVED: 07/06/16
DATE ANALYZED: 07/06/16

SAMPLE LOCATION:
Castlebay Elementary School

ANALYZED BY: Yang Song
REQUESTED BY: Sumner Wilson

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: 7/11/16
Approved By: Solomon Teffera, Acting Sr. Manager
Laboratory Services Branch
(909) 396-2199
LAB NO: 1618729  
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: 07/05/16  
Canister: 22492  
Sampling Location: Castlebay Elementary School  
Ambient Air: 100-700 ppbC

<table>
<thead>
<tr>
<th>Compound</th>
<th>Conc. (ppbv)</th>
<th>Conc. (ppbv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene</td>
<td>0.6</td>
<td>0.7-4.1</td>
</tr>
<tr>
<td>acetylene</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>propane</td>
<td>1.8</td>
<td>0.4-5.0</td>
</tr>
<tr>
<td>propylene</td>
<td>0.1</td>
<td>0.2-0.7</td>
</tr>
<tr>
<td>isobutane</td>
<td>0.4</td>
<td>0.2-0.9</td>
</tr>
<tr>
<td>n-butane</td>
<td>0.5</td>
<td>0.3-1.7</td>
</tr>
<tr>
<td>1-butene</td>
<td>&lt;0.1</td>
<td>0.1-0.3</td>
</tr>
<tr>
<td>trans-2-butene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>cis-2-butene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>isopentane</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>1-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-pentane</td>
<td>0.2</td>
<td>0.1-0.6</td>
</tr>
<tr>
<td>isoprene</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>trans-2-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>cis-2-pentene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,2-dimethylbutane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>cyclopentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,3-dimethylbutane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2-methylpentane</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>3-methylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>1-hexene</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.1</td>
</tr>
<tr>
<td>n-hexane</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>methylcyclopentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,4-dimethylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>benzene</td>
<td>0.2</td>
<td>0.1-0.5</td>
</tr>
<tr>
<td>cyclohexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2-methylhexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,3-dimethylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>3-methylhexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>2,2,4-trimethylpentane</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>n-heptane</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>methylcyclohexane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
</tbody>
</table>
LAB NO: 1618729
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)

<table>
<thead>
<tr>
<th>Sample Date</th>
<th>07/05/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canister</td>
<td>22492</td>
</tr>
<tr>
<td>Sampling Location</td>
<td>Castlebay Elementary School</td>
</tr>
<tr>
<td>Ambient Air</td>
<td>100-700 ppbC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>Conc. (ppbv)</th>
<th>Conc. (ppbv)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,3,4-trimethylpentane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>toluene</td>
<td>0.2</td>
<td>0.1-0.6</td>
</tr>
<tr>
<td>2-methylheptane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>3-methylheptane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-octane</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>m+p-xylenes</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>styrene</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.2</td>
</tr>
<tr>
<td>o-xylene</td>
<td>&lt;0.1</td>
<td>0.1-0.2</td>
</tr>
<tr>
<td>n-nonane</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.1</td>
</tr>
<tr>
<td>isopropylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-propylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>m-ethyltoluene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>p-ethyltoluene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>1,3,5-trimethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>o-ethyltoluene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-decane</td>
<td>&lt;0.1</td>
<td>&lt;0.1-0.1</td>
</tr>
<tr>
<td>1,2,3-trimethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>m-diethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>p-diethylbenzene</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>n-undecane</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>n-dodecane</td>
<td>&lt;0.1</td>
<td></td>
</tr>
</tbody>
</table>

NMOC = Non-Methane Organic Compounds
N.D. = Not Detected
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST

TO: SCAQMD LAB: ☑ OTHER: ☐

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

Source Address: 12801 Tampa Ave City: Porter Ranch
Mailing Address: 12801 Tampa Ave City: Porter Ranch Zip: 91326
Contact Person: ☐ Title: ☐ Tel: ☐

Analysis Requested by: Sumner Wilson Date: 7/6/16
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: 7/6/16 Time: 10:35 pm

REQUESTED ANALYSIS: PAMS analysis

<table>
<thead>
<tr>
<th>City/Location</th>
<th>Can#</th>
<th>Start day / time / duration</th>
<th>Start vac</th>
<th>End Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Porter Ranch / Castlebay Elem</td>
<td>22492</td>
<td>7/5/16 / 00:00 / 24 hours</td>
<td>-30&quot;</td>
<td>+11</td>
</tr>
</tbody>
</table>

Relinquished by         Received by Firm/Agency Date Time
zhengjun                ☑ SCAQMD Lab 7/6/16 12:34 pm

Remarks: 1:3 scheduled samples from trailer at Castlebay
Castlebay Lane Charter School – 19010 Castlebay Ln, Porter Ranch, CA
Left sampler, sn 3419