2016 Annual Air Quality Report
Santa Barbara County

Board of Directors
Santa Barbara County
Air Pollution Control District

Joel Cordes
Air Monitoring/IT Supervisor
August 17, 2017

View of Sherpa Fire
From Monitoring Station
Overview

- 2016 Air Quality Report
- Summary by Pollutant
- Air Quality Trends
- Air Quality Index
Primary Pollutants

- Ozone (O3)
- Oxides of Nitrogen (NOx, NO, NO2)
- Sulfur Dioxide (SO2)
- Carbon Monoxide (CO)
- Fine Particulate Matter (PM2.5)
- Course Particulate Matter (PM10)
## Health Based Standards

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Avg Interval</th>
<th>National Standard</th>
<th>California Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>8 hour</td>
<td>0.070 ppm</td>
<td>0.070 ppm</td>
</tr>
<tr>
<td>Ozone</td>
<td>1 hour</td>
<td>none</td>
<td>0.090 ppm</td>
</tr>
<tr>
<td>PM10</td>
<td>24 hour</td>
<td>150 ug/m³</td>
<td>50 ug/m³</td>
</tr>
<tr>
<td>PM10</td>
<td>Annual</td>
<td>none</td>
<td>20 ug/m³</td>
</tr>
<tr>
<td>PM2.5</td>
<td>24 hour</td>
<td>35 ug/m³</td>
<td>none</td>
</tr>
<tr>
<td>PM2.5</td>
<td>Annual</td>
<td>12 ug/m³</td>
<td>12 ug/m³</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>1 hour</td>
<td>35 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>8 hour</td>
<td>9 ppm</td>
<td>9 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>1 hour</td>
<td>100 ppb</td>
<td>0.18 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>Annual</td>
<td>0.053 ppm</td>
<td>0.030 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>1 hour</td>
<td>75 ppb</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>24 hour</td>
<td>0.14 ppm</td>
<td>0.04 ppm</td>
</tr>
</tbody>
</table>
2016 Exceedance Days

Ozone
- 3 days over Federal 8 hour standard of 70 ppb.
- 3 days over State 8 hour standard of 70 ppb.

PM10
- 9 days over Federal 24 hour standard of 150 ug/m3.
- 44 days over State 24 hour standard of 50 ug/m3.
- Exceeded State annual mean standard of 20 ug/m3.
2016 Maximum 1-HR Sulfur Dioxide by Site

- Lompoc North: SO2: 0
- Lompoc H Street: SO2: 5
- VAFB South Base: SO2: 3
- LFC: SO2: 12
- El Capitan: SO2: 3
- West Campus: SO2: 2

* Units in PPB (Parts Per Billion)
Sulfur Dioxide (SO2) Trends in Santa Barbara County

Parts Per Billion (ppb)

1 Hour Standard (75)
24 Hour Standard (40)

YEAR


SO2 90th Percentile 1-hr
SO2 2nd Max 24-hr
2016 Maximum 24-HR Particulate Matter 10 by Site

- **Santa Maria**
  - PM10: 79

- **Lompoc H Street**
  - PM10: 48

- **VAFB South Base**
  - PM10: 268

- **LFC**
  - PM10: 448

- **Goleta**
  - PM10: 69

- **El Capitan**
  - PM10: 179

- **Santa Barbara**
  - PM10: NA

*Units in μg/m³ (Microgram per Cubic Meter)*
2016 Maximum 24-HR Particulate Matter 2.5 by Site

- Santa Maria
  PM2.5: 19

- Lompoc H Street
  PM2.5: 30

- Goleta
  PM2.5: 26

- Santa Barbara
  PM2.5: NA

* Units in μg/m³ (Microgram per Cubic Meter)
2016 Air Quality Index

- Good: 264 Days
- Moderate: 90 Days
- Unhealthy: 2 Days
- Unhealthy for Sensitive Groups: 9 Days

Santa Barbara County
Air Pollution Control District
Contact Information

Joel Cordes
Air Monitoring/IT Supervisor
CordesJ@sbcapcd.org
(805) 961-8816.