

June 2, 2009

Gayle Sweigart
California Air Resources Board
1001 "I" Street
P.O. Box 2815
Sacramento, CA 95812

SUBJECT: Supplemental Exceptional Event Documentation Submittal - PM10 plots

Dear Ms. Sweigart:

The San Luis Obispo County Air Pollution Control District is submitting supplemental Exceptional Event Documentation that addresses wildfire emission impacts on ozone concentrations at San Luis Obispo County monitoring stations in 2008. Attached is a plot of PM10 data from a portable eBAM monitor that was operated five miles northwest of Paso Robles and at the San Luis Obispo APCD office during the smoke event last summer. This data provides additional evidence that smoke impacted ozone measurements in San Luis Obispo County.

Upon concurrence of this submittal, we respectfully request that you submit this additional documentation to the EPA. If you have need for additional information, please contact me at (805) 781 5743 or garcemont@co.clo.ca.us

Sincerely,

Gary Arcemont
Air Quality Specialist

GJA/ksj

Enclosures

cc: Karen Magliano, ARB
Steve Gouze, ARB
Sean Hogan, EPA

**SUPPLEMENTAL EXCEPTIONAL EVENT DOCUMENTATION
SAN LUIS OBISPO COUNTY – OZONE - WILDFIRE SMOKE - SUMMER 2008**

Smoke from fires impacted San Luis Obispo County at times from mid June 2008 through July 2008. In the initial February 5, 2009 Exceptional Event submittal, the APCD demonstrated that smoke impacted San Luis Obispo County, based upon review of MODIS satellite images, trajectory analysis and particulate model animations:

http://www.slocleanair.org/air/pdf/Exceptional%20Events/Report_ExceptionalEvent_web.pdf

The APCD refined the analysis in the March 10, 2009 Exceptional Event submittal to examine impacts at specific ozone monitoring stations:

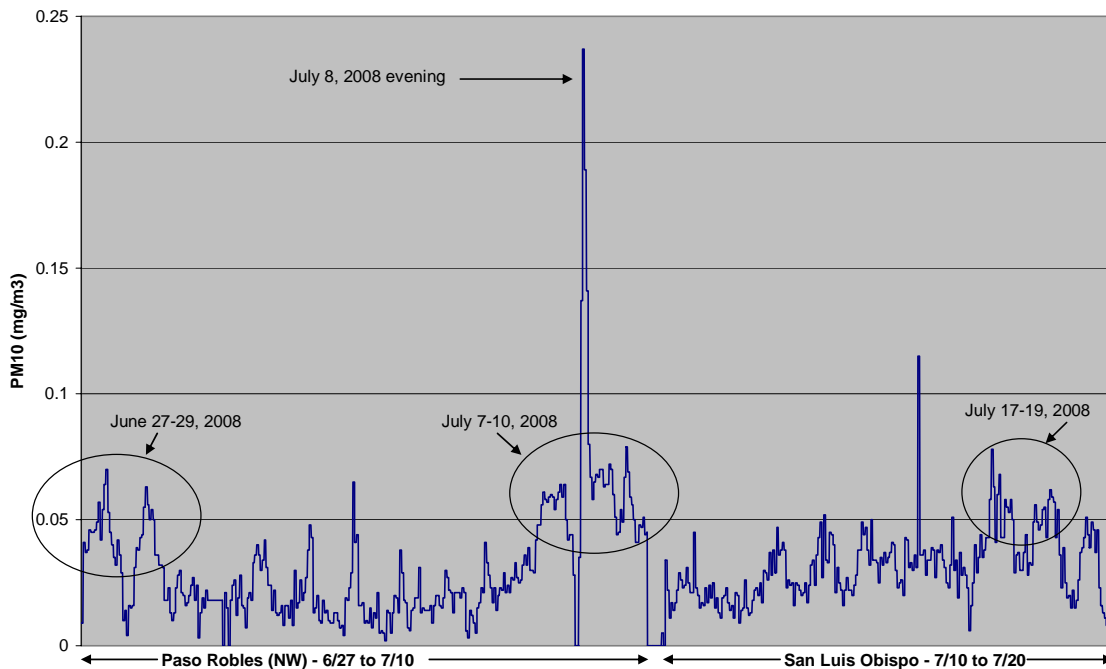
<http://www.slocleanair.org/air/pdf/Exceptional%20Events/SLOCoAPCDExceptionalEvent.pdf>

The APCD requested concurrence on ozone data smoke impact flags for:

- San Luis Obispo, June 19, 2008
- Morro Bay, June 20, 2008
- Red Hills & Carrizo Plains, June 27, 2008, 8 & July 9, 2008, July 25, 2008
- Red Hills, July 26, 2008

To provide additional ‘weight of evidence’ for the exceptional event, the following plot of PM10 data is submitted.

PM10 Temporary EBAM Monitor - Paso Robles (5 mi NW) & San Luis Obispo - June 27 to July 20, 2008



The plot presents data from a portable PM10 EBAM monitor that was deployed by the APCD to examine smoke impacts during the smoke event. The plot was not submitted as part of previous submittals because the data had not been processed at the time.

From June 27, 2008 to July 10, 2008, the PM10 monitor was operated at a site approximately five miles northwest of Paso Robles to examine smoke concentrations entering the county from the north. Significant smoke impacts are evident in the data for the periods June 27 – 29, 2008 (peak 8-hour ozone impact 90 ppb) and July 7 – 20, 2008 (peak 8-hour ozone impact 97 ppb). This data supports the request for concurrence to flag data due to smoke impacts for June 27, 2008 and July 8-9, 2008.

On July 10, the monitor was moved to San Luis Obispo to investigate smoke impacts in San Luis Obispo, the city with the most population in the county. The monitor recorded smoke impacts for the period July 17-19, 2008. The APCD did not request to flag data for this period because the ozone concentration was not as high as other periods (peak 8-hour ozone impact 76 ppb), even though the ozone concentration exceeds the federal 8-hour ozone standard.

The temporary PM10 EBAM monitor was shut down on July 20, 2008. A map of the monitoring stations is provided below. The monitoring location 5 miles NW of Paso Robles (5 miles = 4 millimeters on the map) is at 1000 feet elevation. San Luis Obispo is at 233 feet elevation.

