

Toxicity of Source-Oriented Ambient Submicron Particulate Matter Contract (06-331)

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Contract Manager

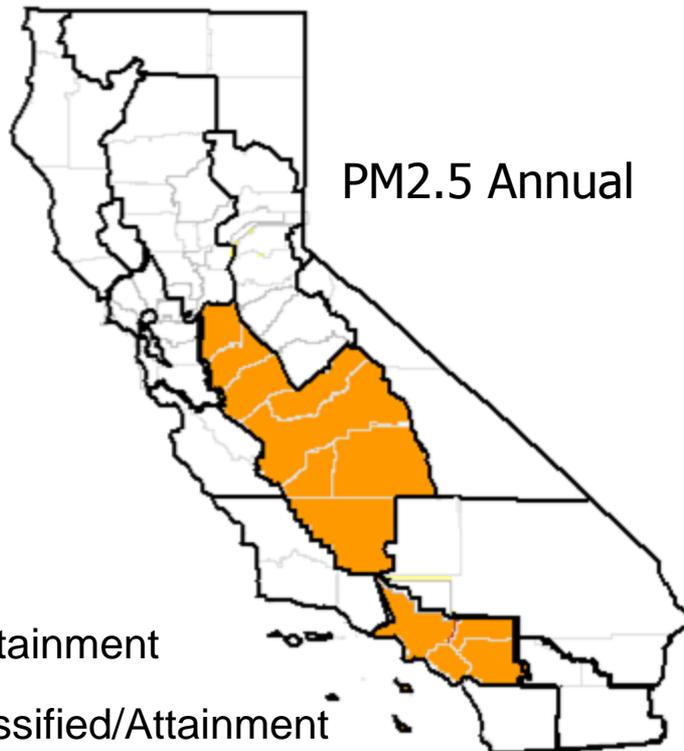
February 19th, 2013

California Environmental Protection Agency

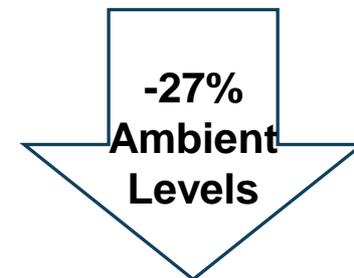
 **Air Resources Board**

California Air Resources Board's Mission

To promote and protect public health, welfare, and ecological resources through effective reduction of air pollutants while recognizing and considering effects on the economy.



Statewide PM2.5
since 1999



Ambient PM Overview



Mobile Sources
VOCs, NO_x, PM



Stationary Sources
NO_x, SO₂, PM



Area Sources
VOCs



Natural Sources
PM

PM from sources directly to
the environment

PM formed by atmospheric
chemistry of **SO₂, NO_x & VOCs**

Health Risk

Main goals of this study

CENTRAL QUESTION: ARE SOME PM MORE TOXIC THAN OTHERS?

- Task 1: Develop methodology and instrumentation for the isolation and collection of ambient particulate matter from different sources and atmospheric processing
- Task 2: Analyze toxicological differences between these samples in an animal model system

Today's Speakers



Anthony Wexler Ph.D.

Professor of Mechanical and Aerospace Engineering, Civil and Environmental Engineering, and Land, Air and Water Resources and Director of the Air Quality Research Center (AQRC) University of California, Davis



Keith Bein Ph.D.

Assistant Research Scientist at the AQRC and Crocker Nuclear Laboratory. Research Faculty at the Center for Health and the Environment at the University of California, Davis



Kent Pinkerton Ph.D.

Professor of Pediatrics in the School of Medicine and Professor of Anatomy, Physiology and Cell Biology in the School of Veterinary Medicine at the University of California, Davis