



Profile of California Air Quality

STAPPA and ALAPCO
Fall 2003 Membership Meeting

October 18, 2003

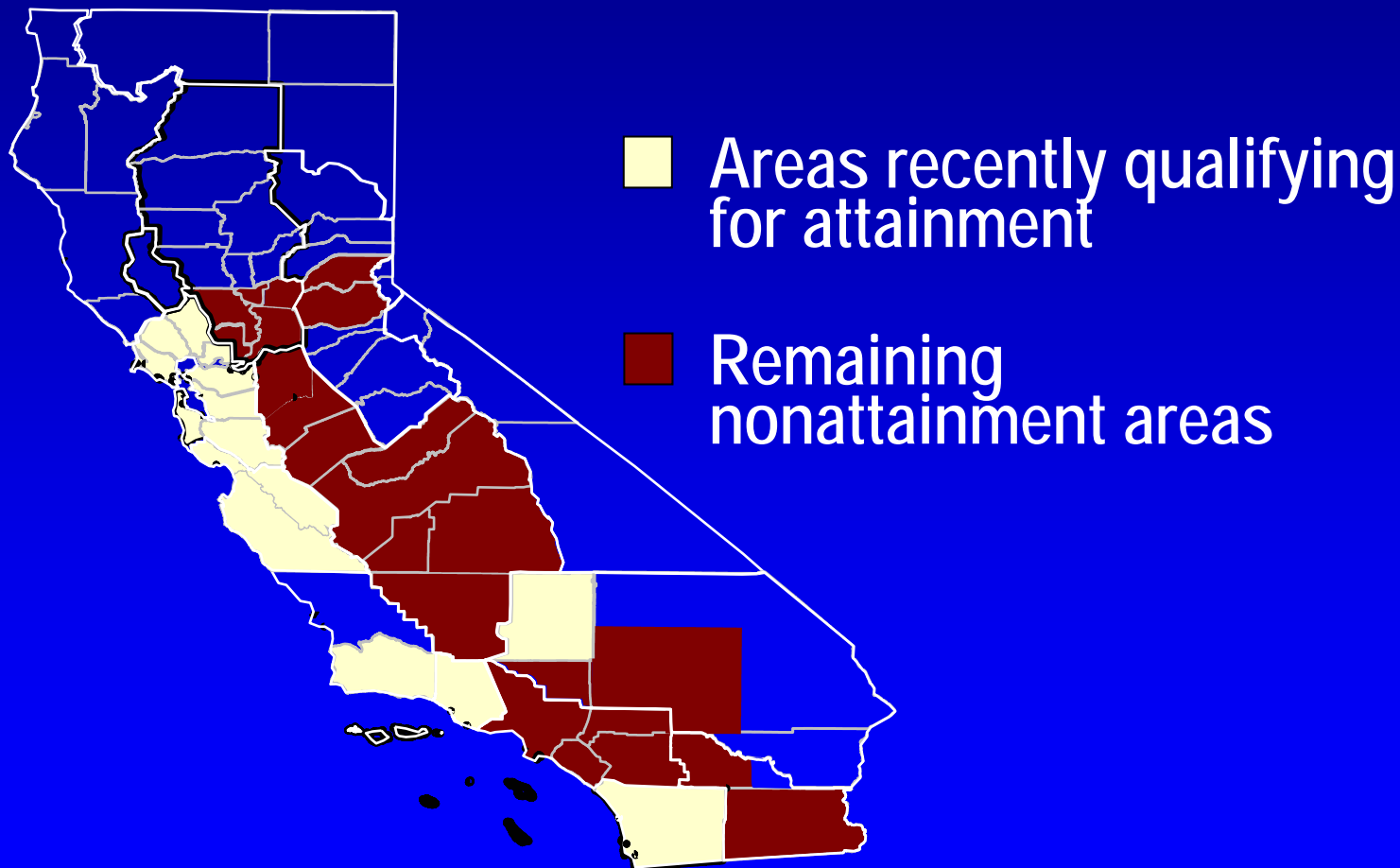
Catherine Witherspoon
Executive Officer

California Environmental Protection Agency

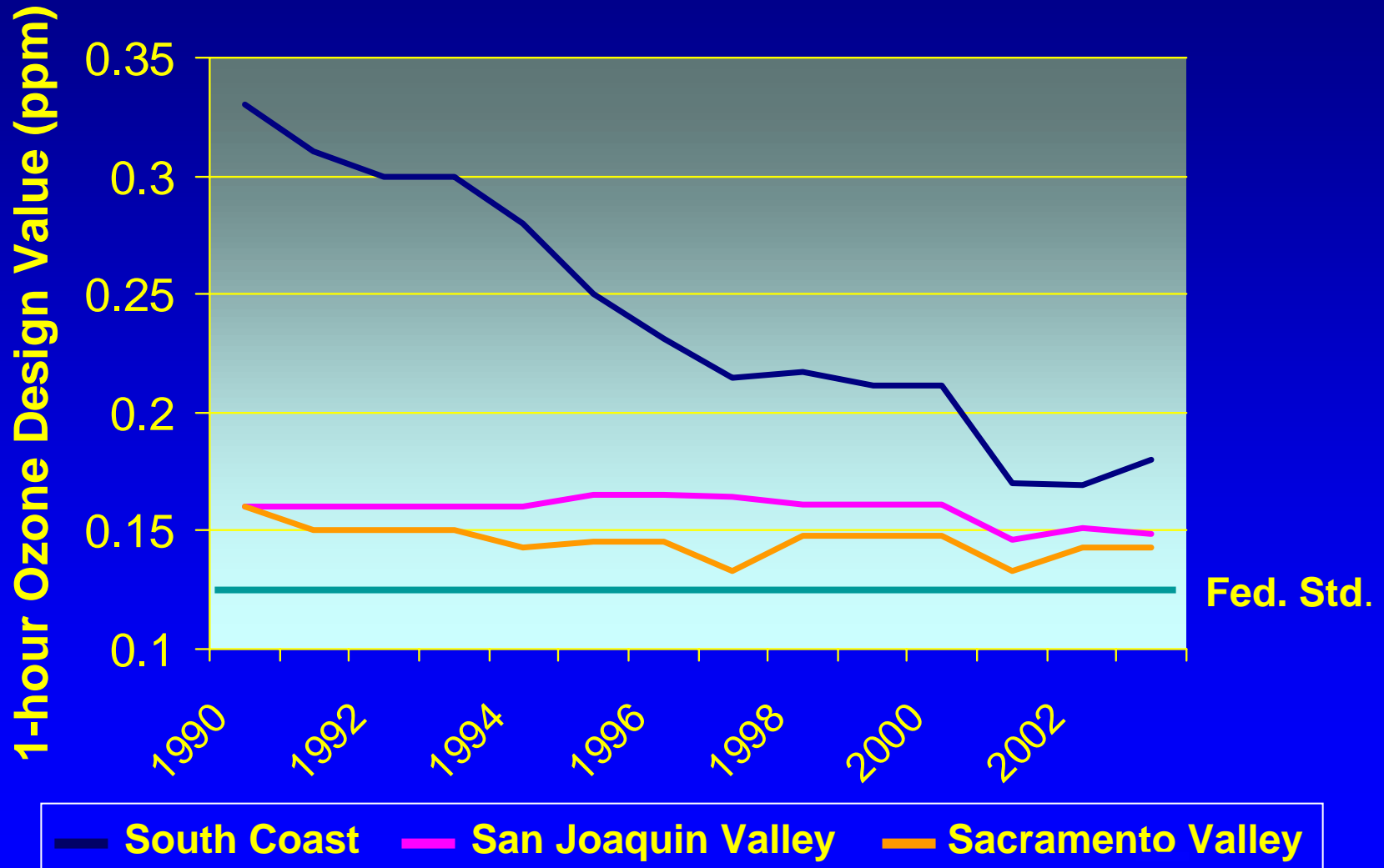


Air Resources Board

Progress Toward Meeting the Federal 1-hour Ozone Standard



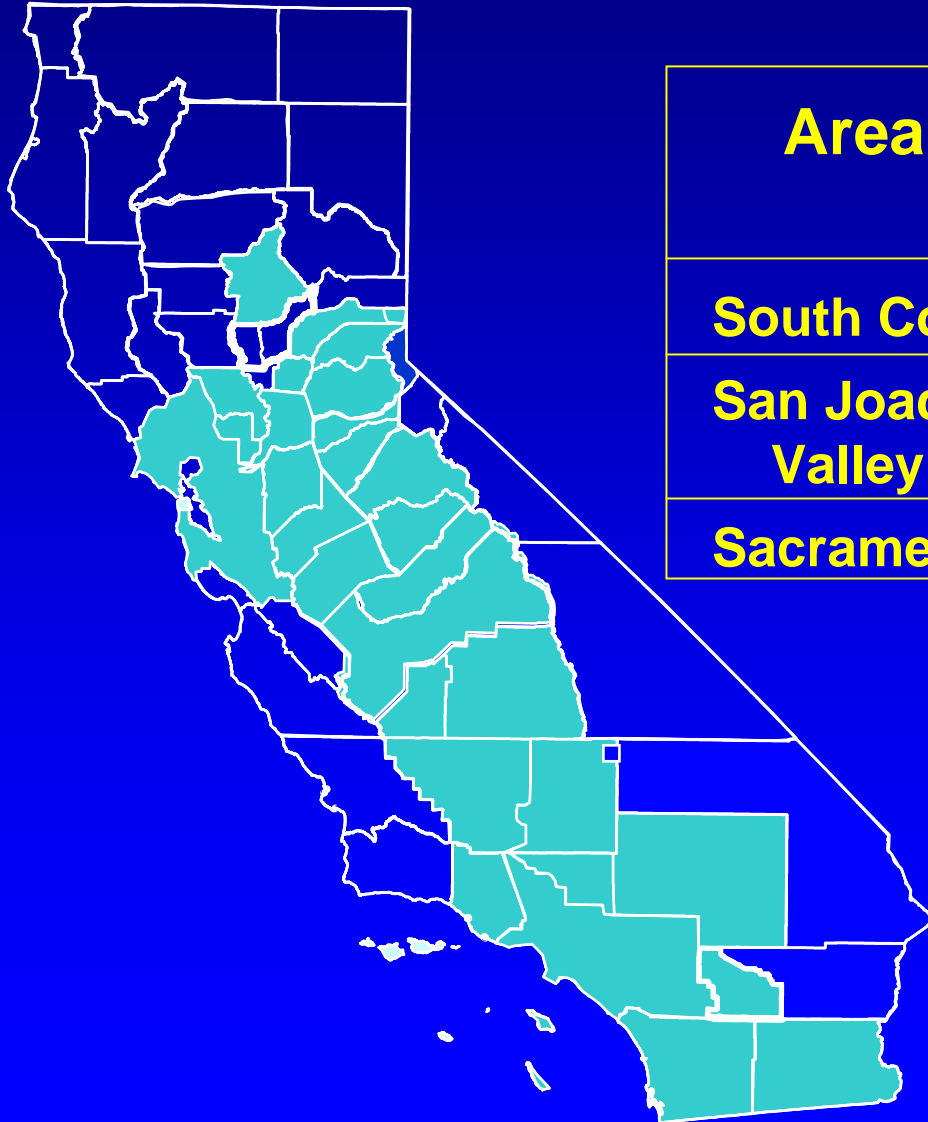
1-hour Ozone Trends in California (Preliminary 2003)



What Happened in Summer 2003?

- First South Coast State 1 Alert since 1998
- South Coast weather conditions were conducive to high ozone formation
 - Hot, strong inversions, calm winds
 - Similar 1998 weather produced even higher more widespread peaks
- Emission reductions since 1998 are helping
- More typical weather elsewhere in State

Expected California 8-hour Nonattainment Areas

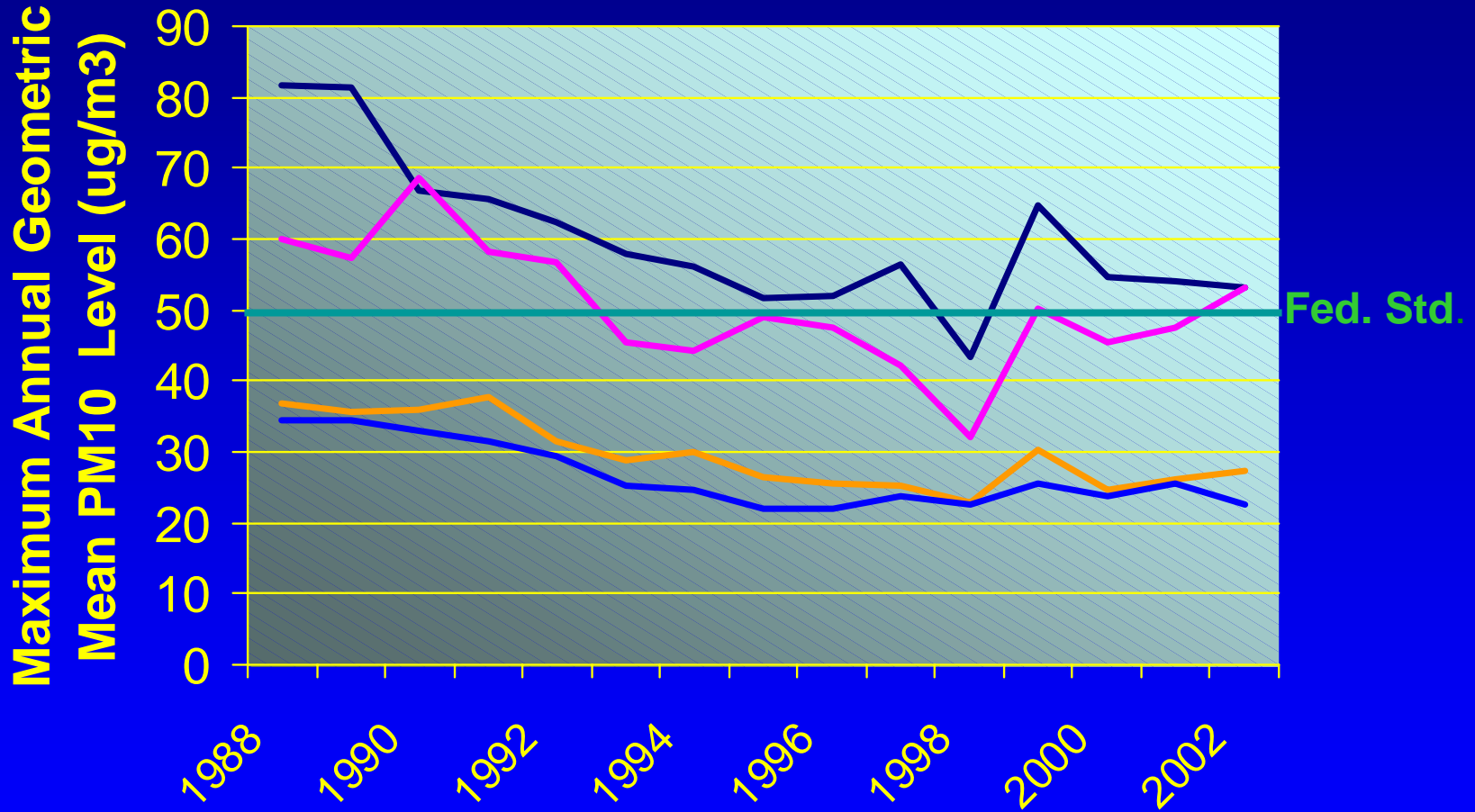


Area	Expected Class.	Attain. Date
South Coast	Severe-17	2021
San Joaquin Valley	Serious	2013
Sacramento	Moderate	2010

8-hr Classification Issues

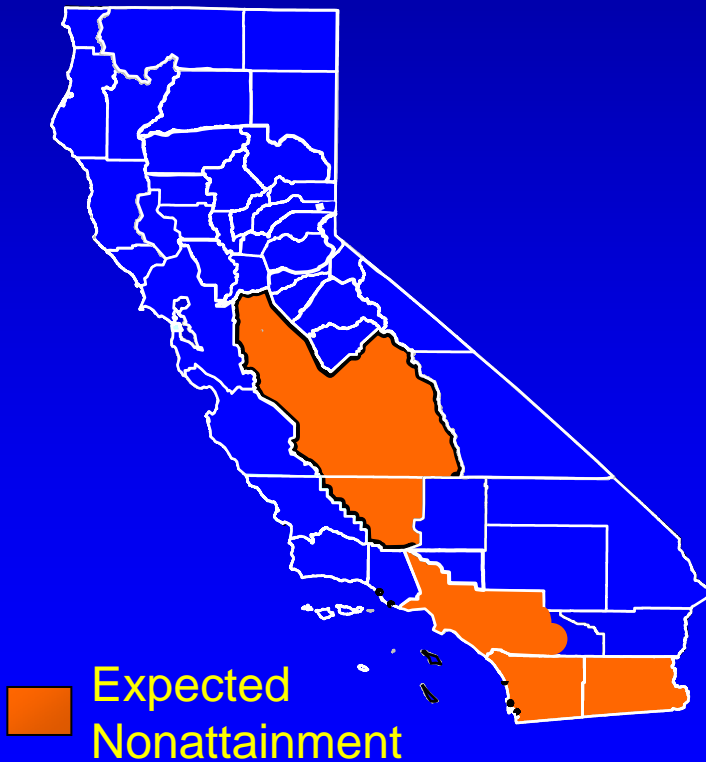
- Meeting attainment dates will be a challenge with California's high number of violations
- Keeping momentum during transition from 1-hr ozone standard
- Uncertainty about how U.S. EPA will address transport-overwhelmed rural areas

Annual Average PM10 Trends



— South Coast — San Joaquin Valley — Sacramento Valley — San Francisco Bay Area

Expected California PM_{2.5} Nonattainment Areas



Air District	Design Value (ug/m)	
	24-hr.	Annual
San Joaquin Valley	90	23.2
South Coast	73	28.9
Imperial	50	15.6
San Diego	33	16.4

Air Quality Challenges

- Meeting NAAQS demands:
 - Cleanup of existing fleets
 - Continued consumer products reformulation
 - Cleaner commercial and industrial sources
- Need to succeed:
 - Strong support from public, industry, agencies, and Legislature
 - New funding sources

New Statewide Ozone Strategy Proposal

- Updating 1-hour ozone SIPs to address conformity and 2010 deadline
- Proposal provides State elements for district SIPs
- Commits ARB to major rulemaking efforts
 - 20 new control measures 2003-2006

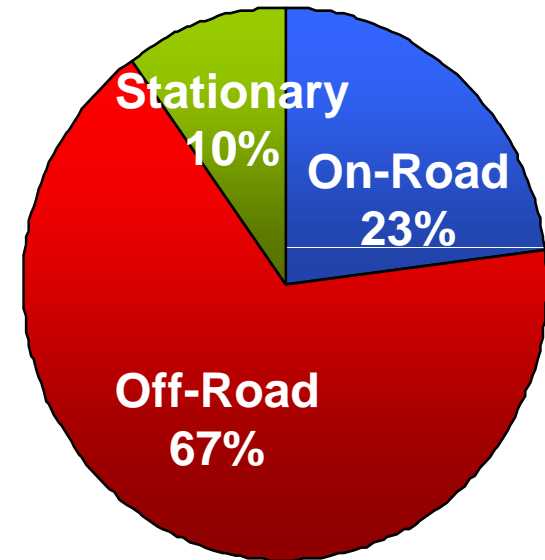
ARB's Proposed Near-Term Control Strategy

- Passenger vehicles
- Trucks and buses
- Gas cargo tankers
- Off-road diesel engine retrofits
- Large off-road gasoline engines
- Consumer products
- Diesel fuels
- Lawn and garden
- Harbor craft engines/fuels
- Land-based port emissions
- Vapor recovery

California's Diesel Risk Reduction Plan

- Diesel PM contributes 70% of air toxics cancer risk
- Reduce emissions and risk by accelerating the move to cleaner diesel fleet via retrofits and replacement engines
- 75% risk reduction goal by 2010

Diesel PM Sources
(Statewide-2002)



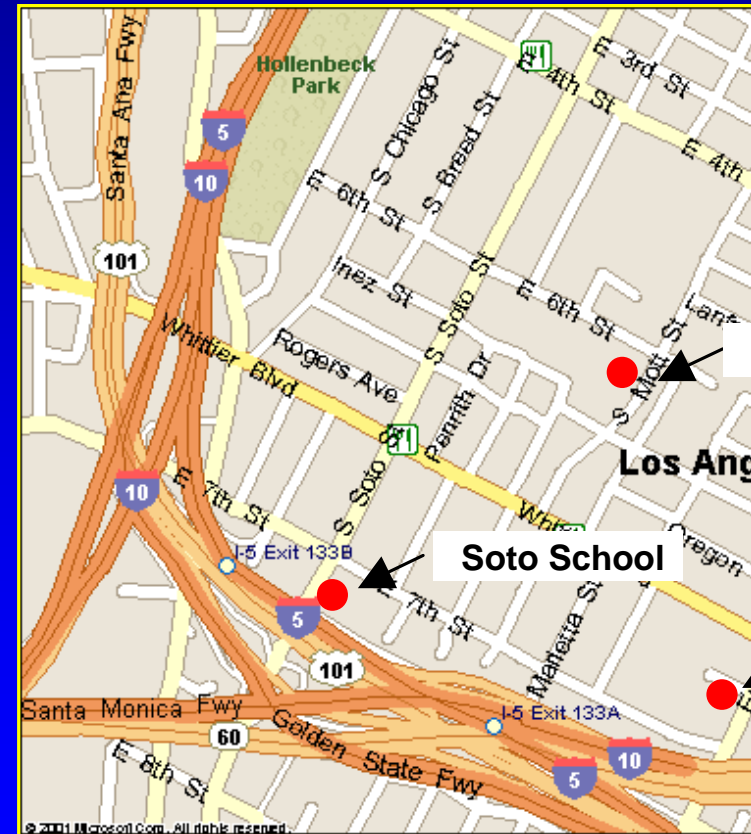
Diesel Risk Reduction Actions

- **Adopted Rules**
 - Public transit buses
 - Refuse removal vehicles
- **Proposed Rules**
 - Stationary Engines
 - Transportation Refrigeration Units
 - Fuel Tanker Trucks
- **Long-term strategies**
 - On-road public fleets
 - On-road private fleets
 - Off-road engines

Evaluating Source Impacts at the Community Level

- Conducting special monitoring studies in six California communities
- Developing better understanding of cumulative source effects
- Information could aid in community development and land use planning

Boyle Heights, Los Angeles



What We're Doing About Global Climate Change

- AB 1493 enacted this year
- Requires ARB to adopt regulations that achieve maximum feasible and cost-effective reduction of greenhouse gas emissions from motor vehicles
- Regulations will apply to 2009 and later model years

Summary

- California cannot afford a stall in progress as we move to new standards
- California's ozone and PM problems require substantial new federal, state, and local emission reductions
- Diesel PM and community impact issues are important throughout the U.S.
- Climate change regulation will have concomitant criteria pollutant benefits

Governor Elect's Air Quality Action Plan

Cut Air Pollution Statewide by Up to 50%

- **Invest in Hydrogen Highways**
- **Fight for federal dollars for hydrogen fuel development.**
- **Expedite clean fuel transportation**
- **Get gross-polluting vehicles off the road now**
- **Protect California's air quality standards for industrial facilities**
- **Relieve Traffic Congestion**