



Coachella Valley Attainment Plan for the 2008 8-Hour Ozone Standard

Public Consultation Meeting

August 14, 2024



Outline

- Background and Ozone Air Quality in Coachella Valley
- Attainment Status
- Federal Clean Air Act Requirements
- Control Strategy
- Attainment Demonstration
- Public Process
- Next Steps

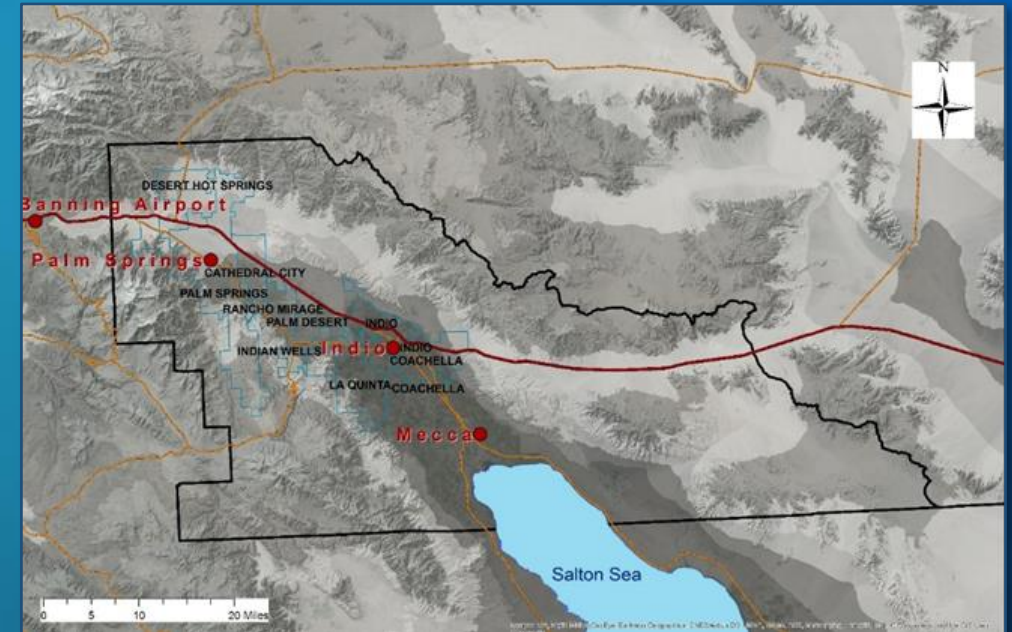
South Coast AQMD

- Local air pollution control agency
 - Oversees South Coast Air Basin and Coachella Valley
 - Largest of the 35 local air agencies in CA and in the U.S.
 - 10,743 square miles
 - 17 million residents
- Responsibilities
 - Regulate emissions primarily from stationary sources
 - Develop and implement plans to meet national air quality standards
 - Permit and inspect about 28,000 facilities
 - Administer over \$100 million of incentive funding annually



Coachella Valley

- The Coachella Valley is the desert portion of Riverside County in the Salton Sea Air Basin
- Located downwind of the South Coast Air Basin (Basin) and under the jurisdiction of South Coast AQMD



Our Challenge



Los Angeles c. 1950

Our region has historically suffered from some of the worst air quality in the United States

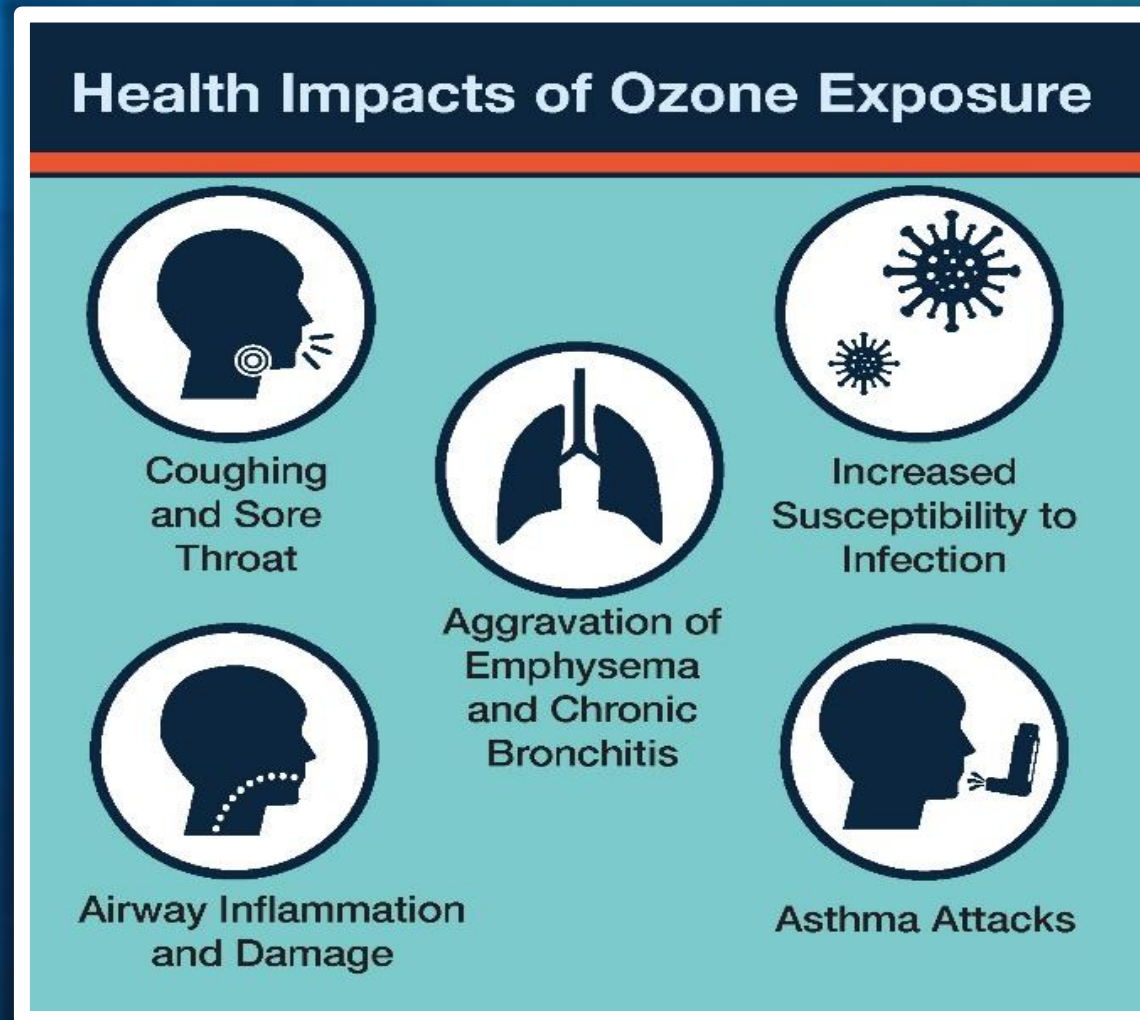


Los Angeles in 2018

We have made significant progress, but still suffer from poor air quality

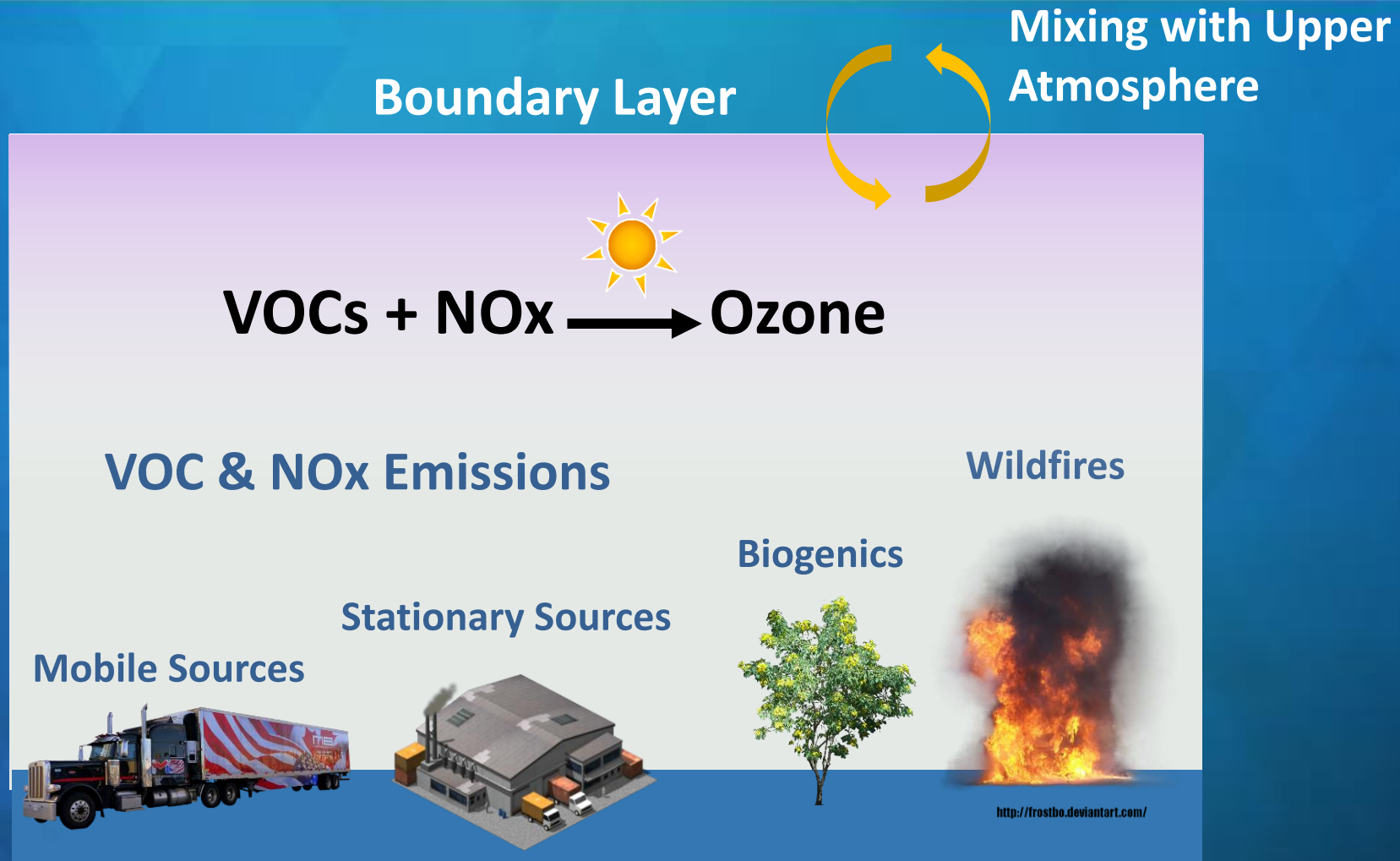
- Worst ozone (smog) in the nation
- Among the worst fine particulate matter (PM2.5)

Ozone Health Effects



Ozone exposure is associated with **adverse health impacts**, including respiratory inflammation and worsening asthma symptoms

Ozone Formation



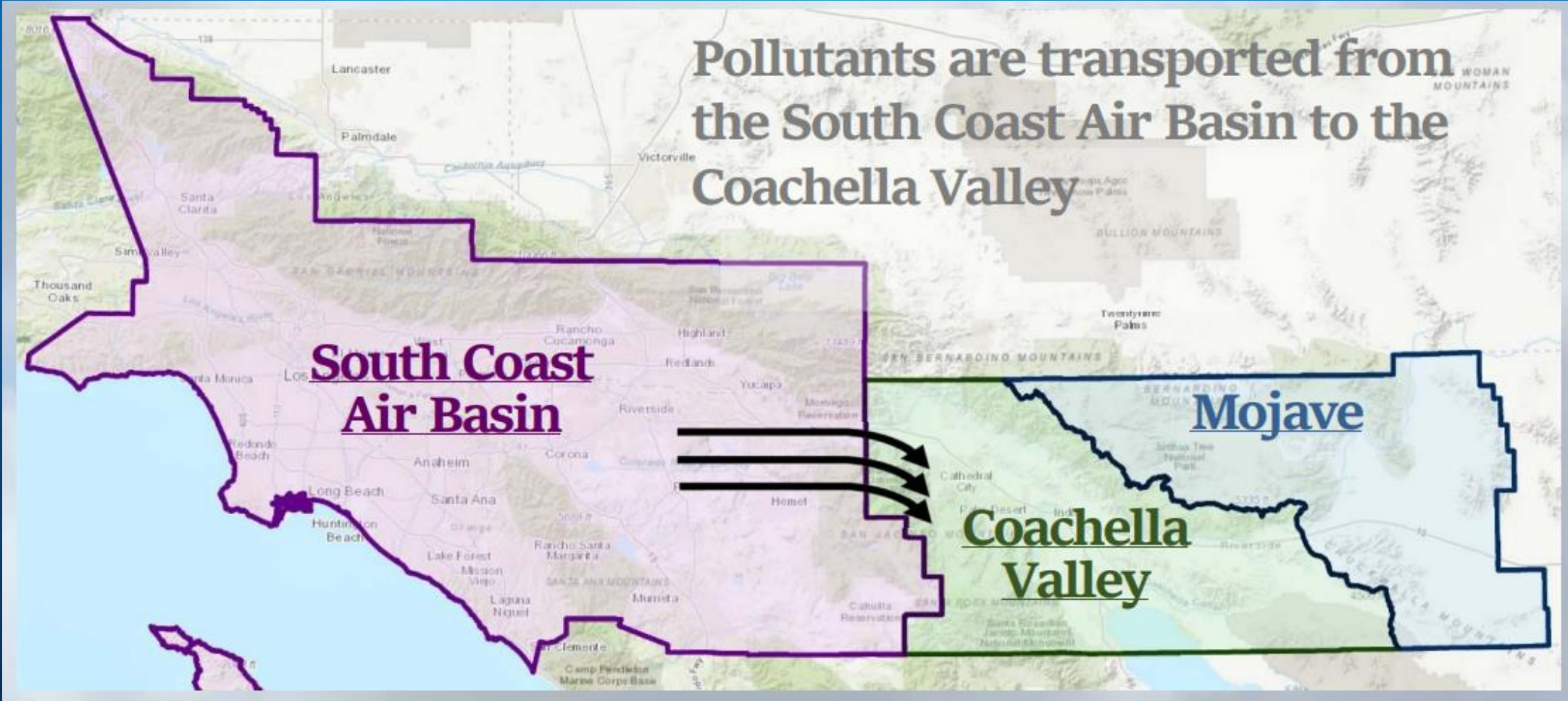
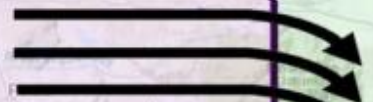
Ozone Transport into the Coachella Valley

Pollutants are transported from the South Coast Air Basin to the Coachella Valley

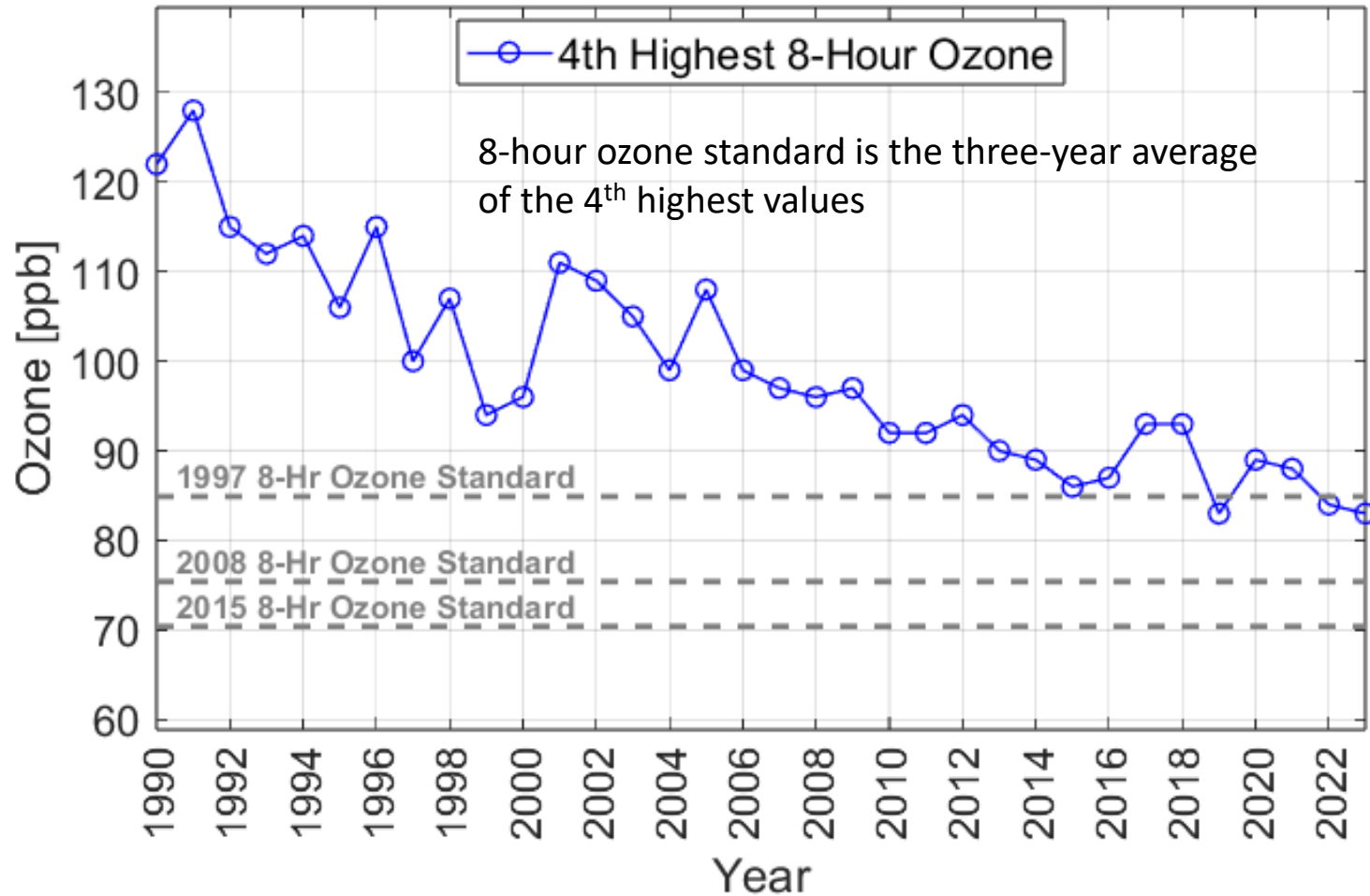
South Coast Air Basin

Mojave

Coachella Valley



Ozone Air Quality in Coachella Valley



Progress is being made to reduce ozone in Coachella Valley

Ozone Standard	Attainment Year
1997	2023
2008	2031
2015	2032*

*Reclassification request to “extreme” nonattainment is pending U.S. EPA’s approval and would extend the attainment year to 2037

Overview of SIP Actions for the 2008 8-Hour Ozone Standard

Ozone Nonattainment Classifications

Attainment

Marginal

Moderate

Serious

Severe

Extreme

Coachella Valley was originally classified as a “severe” nonattainment area, with attainment by 2026.

U.S. EPA approved South Coast AQMD’s request to bump-up Coachella Valley to “extreme” nonattainment in March 2023.

A new SIP addressing “extreme” area requirements is due to U.S. EPA by October 7, 2024.

Implications of Reclassification

- Federal Clean Air Act and subsequent U.S. EPA regulations describe reclassification process
 - Attainment deadline extended to 2031
 - An update to the Air Quality Management Plan must be prepared
 - Includes 15 elements



<i>Emissions Inventory</i>	<i>Control Strategy</i>	<i>Reasonably Available Control Measures</i>
<i>Reasonably Available Control Technology</i>	<i>Attainment Demonstration</i>	<i>Reasonable Further Progress</i>
<i>Transportation Conformity</i>	<i>Vehicle Miles Traveled Offset Demonstration</i>	<i>New Source Review Program</i>
<i>Emissions Statement</i>	<i>Clean Fuels for Fleets</i>	<i>Clean Fuels for Boilers</i>
<i>NOx Requirements</i>	<i>CAA Section 185 Fee Program</i>	<i>Contingency Measures</i>

Strategy to Attain 2008 8-Hour Ozone Standard: Relies on Phase-In of Previously Adopted Rules



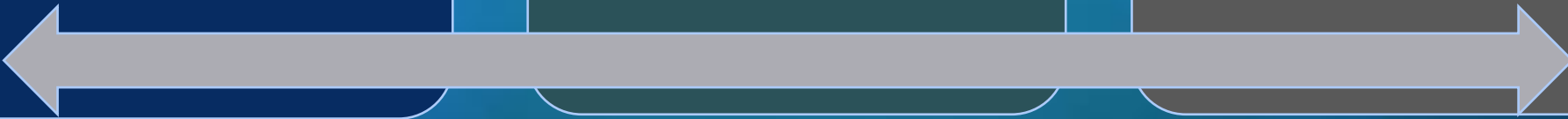
Baseline Measures



Recently Adopted
South Coast AQMD
Rules



CARB's and U.S.
EPA's Recently
Adopted Mobile
Source Regulations



*Recently Adopted 2022 Air Quality Management Plan
provides additional assurance that standard will be met on time*

South Coast AQMD Rules Contributing to Attainment



Baseline Reductions

Rules adopted by October 2020 and Rule 1109.1



RECLAIM Landing Rules

Rules adopted to implement the RECLAIM transition to a command-and-control regulatory structure (e.g., Rules 1110.2, 1118.1, and 1147)



Recently Adopted Rules Affecting Non-RECLAIM Sources

Other rules adopted through 2023 (e.g., Rules 1111, 1153.1, and 1168)

Recently Adopted CARB Measures Providing Reductions in 2031



On-Road Light-Duty



On-Road Heavy-Duty



Off-Road Equipment



Primarily-Federally Regulated Sources

Selected CARB and EPA Regulations Contributing to Attainment

Baseline Reductions

- Heavy-Duty Inspection and Maintenance
- Small Off-Road Engines

CARB Recently Adopted Regulations

- Advanced Clean Car II
- Clean Mile Standard
- Advanced Clean Fleets Regulation
- Commercial Harbor Craft Amendments
- In-use Locomotive Regulation
- Transport Refrigeration Unit part I
- In-use Off-road Diesel-Fueled Fleets Regulation

EPA Recently Adopted Regulation

- Clean Truck Plan

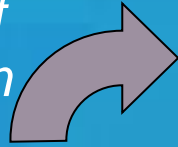
2022 State Strategy for the State Implementation Plan

Adopted
September 22, 2022

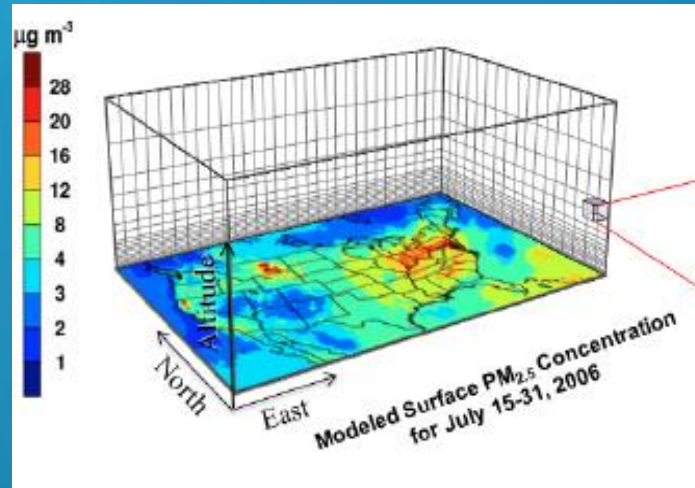


Process for Showing How to Meet the Standard

Evaluate impact of emission reduction



Photochemical Air Quality Model



Predict future air quality

Emissions Inventory

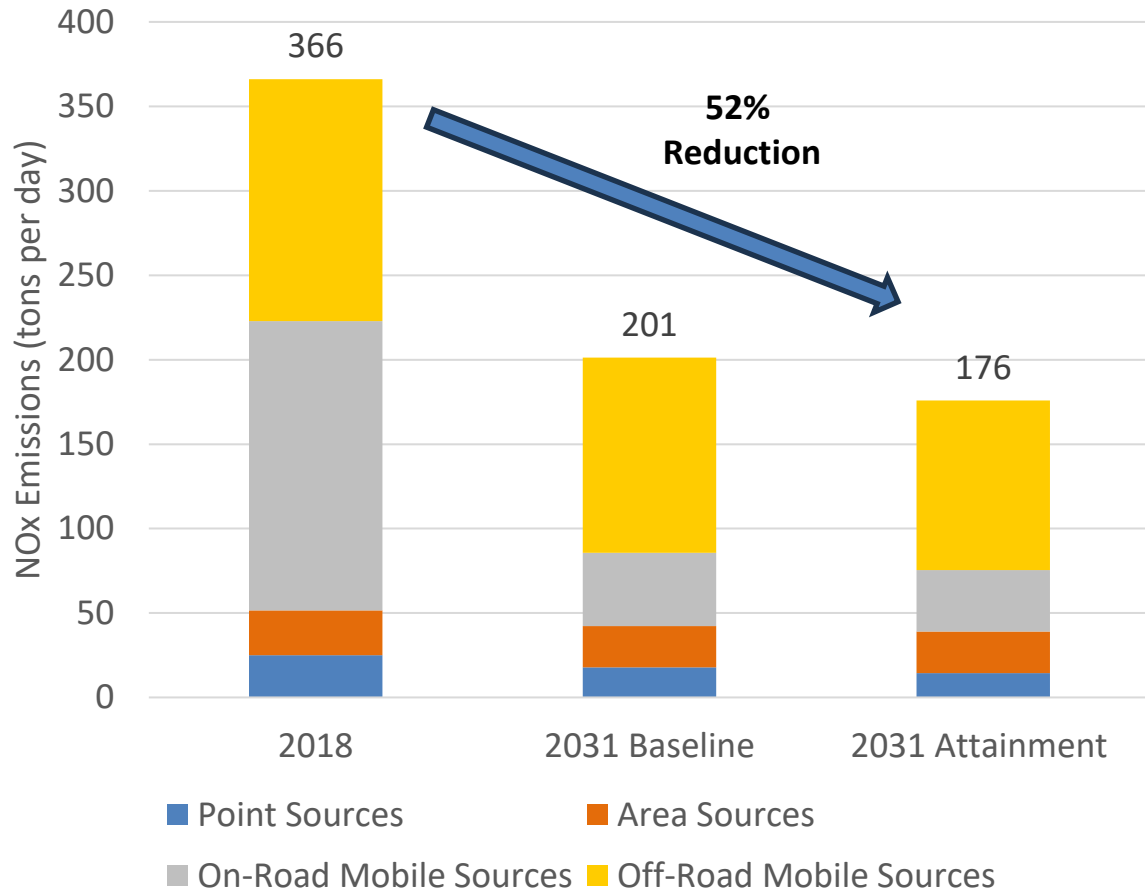


Develop control strategy and apply the reductions to the inventory

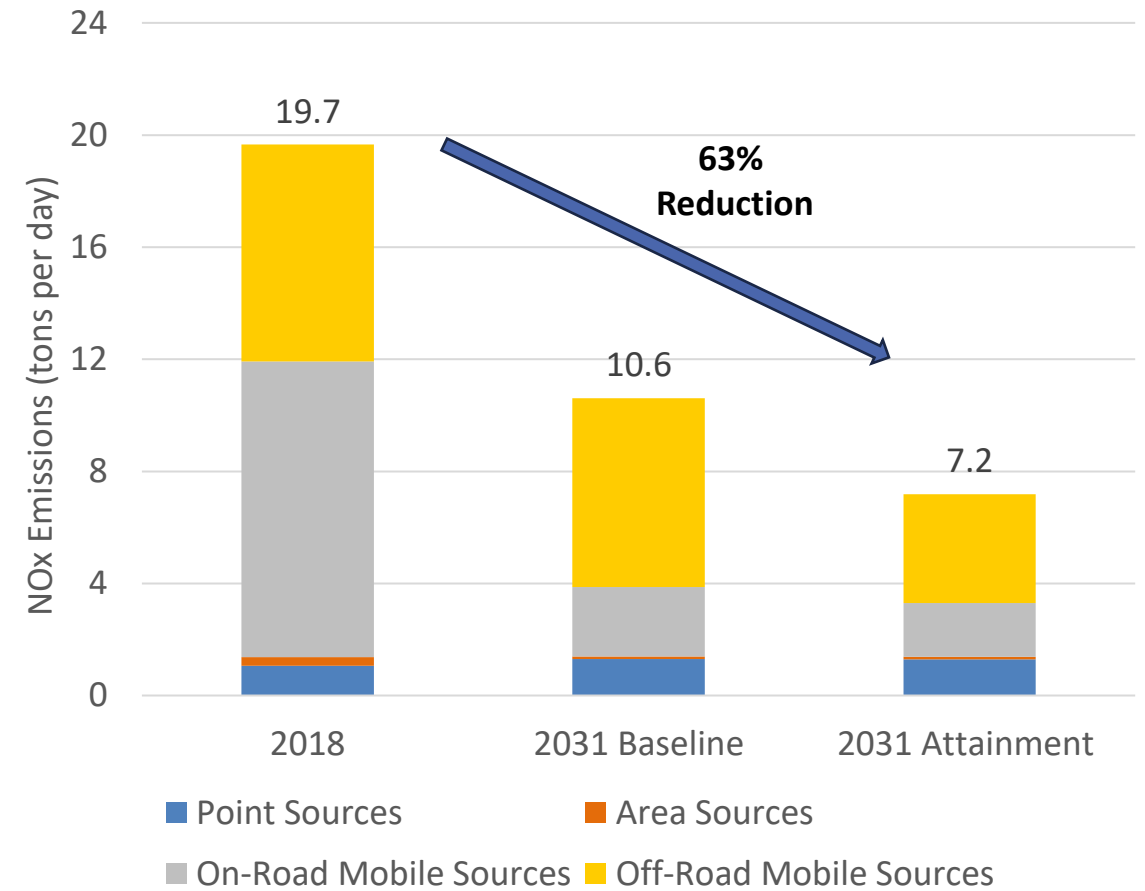


Emission Changes from 2018 to 2031

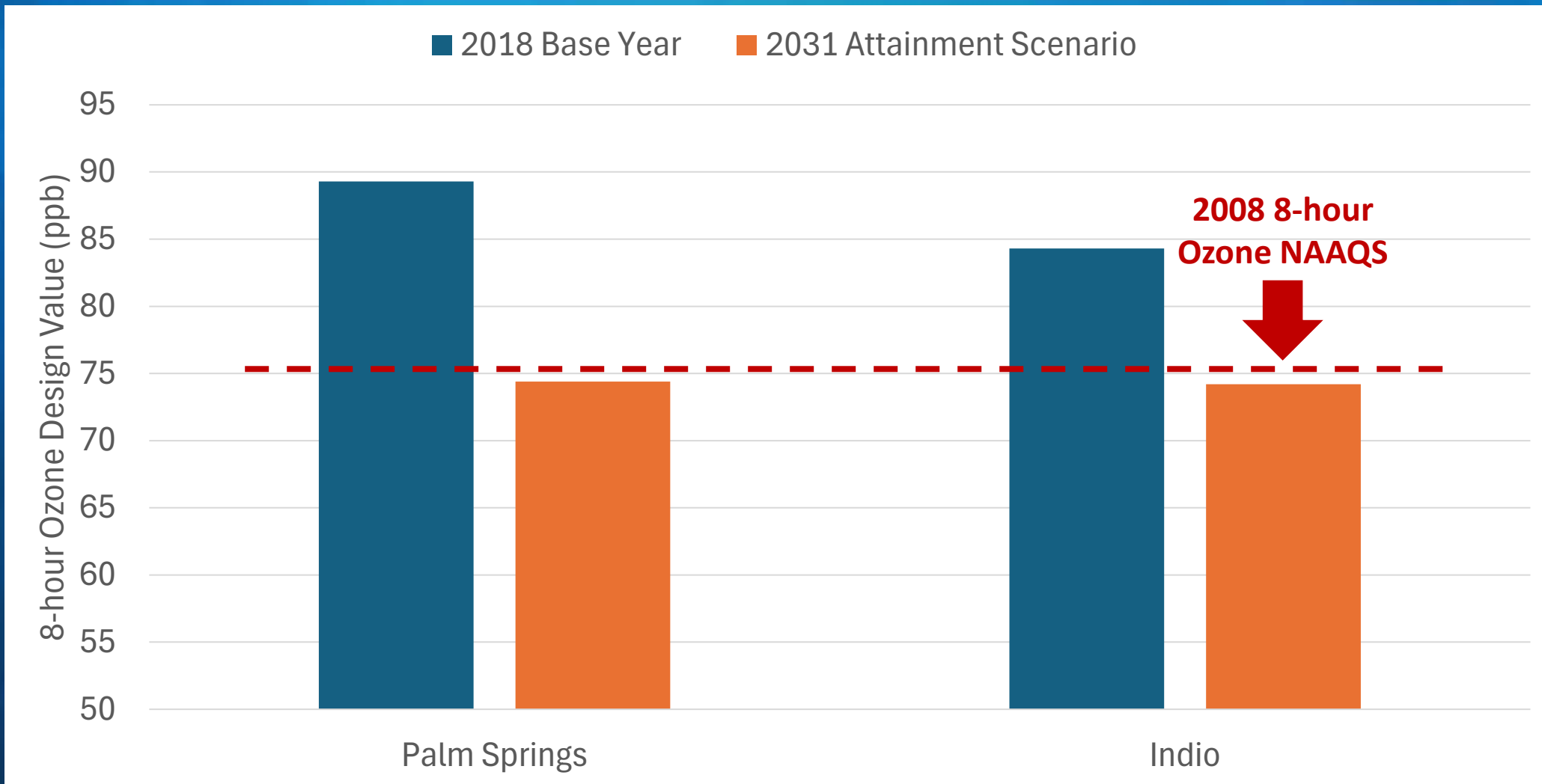
South Coast Air Basin



Coachella Valley



Future Ozone Concentrations



SIP Development Public Process



July 31

- Released Draft Plan

August 14

- Public Consultation meeting

August 16

- Mobile Source Committee

August 30

- Close of Public Comment Period

September 5

- Eastern Coachella Valley Community Steering Committee

October 4

- Governing Board Hearing

October

- Submission to U.S. EPA via CARB

Conclusion



Coachella Valley is in “extreme” nonattainment for the 2008 8-hour ozone standard.



Staff developed the Coachella Valley Ozone Plan to attain the 2008 8-hour ozone standard of 75 ppb in 2031.



The strategy to attain the standard relies on the continued implementation of adopted rules and regulations by South Coast AQMD and CARB.



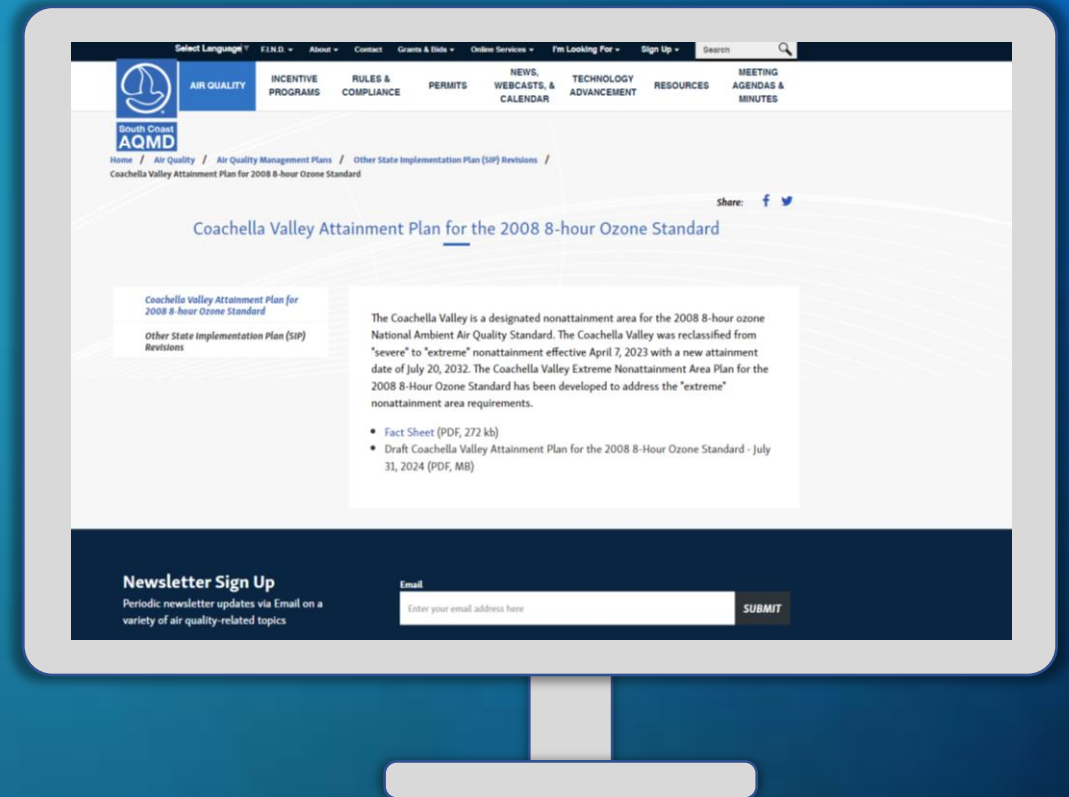
The Coachella Valley Ozone Plan will be heard by the South Coast AQMD Governing Board on October 4, 2024 (subject to change). Upon adoption, the Plan will be submitted to U.S. EPA via CARB.

Supporting Documents

All supporting documents
are available on the Coachella Valley
Ozone Plan website:

<https://www.aqmd.gov/cvozoneplan>

Point your smartphone
camera here to be directed
to the website



Submission of Comments

Please submit all written comments by **Friday, August 30, 2024** to:



Email: AQMPteam@aqmd.gov

For more information, please contact:

Coachella Valley Ozone Plan

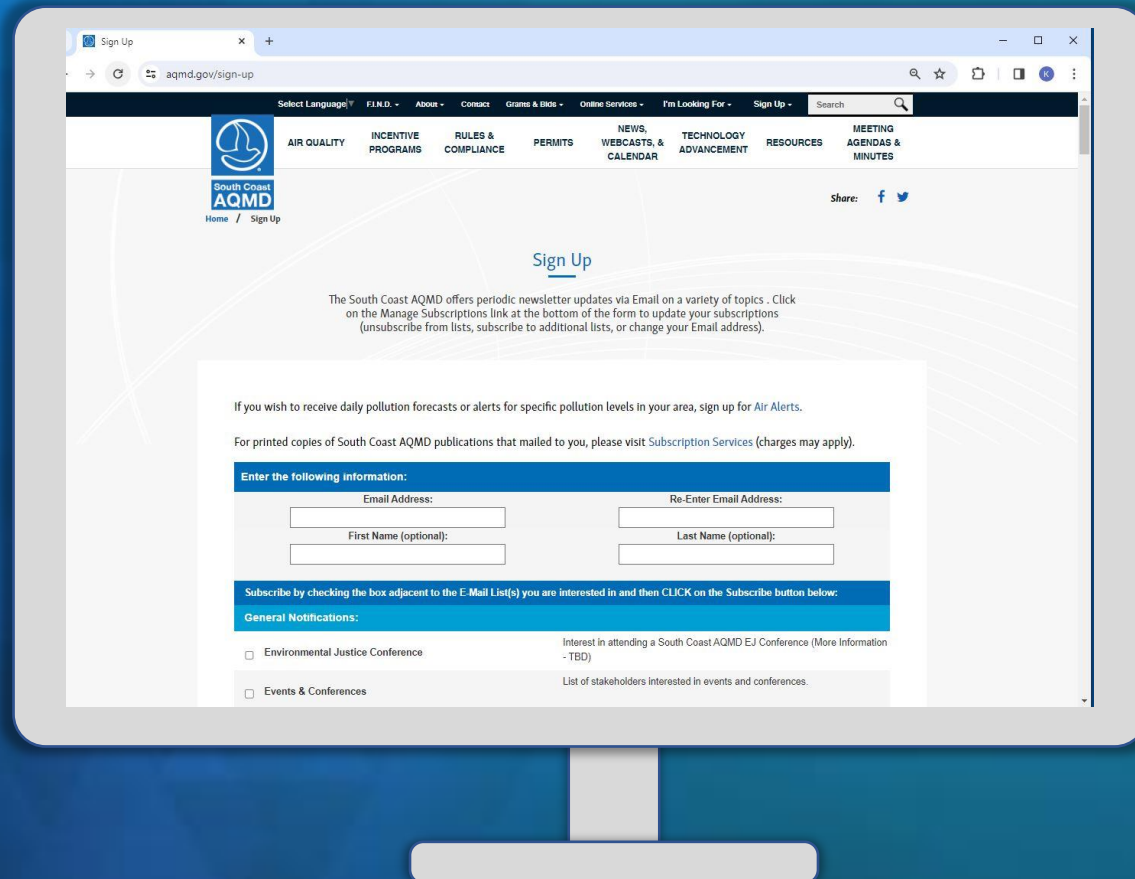
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CEQA and Socioeconomic Impacts

Farzaneh Khalaj, Ph.D., Air Quality Specialist at fkhalaj@aqmd.gov

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