

# Michael Cacciotti

## *Governing Board Vice Chair*

*South Coast Air Quality Management District*

Council Member, South Pasadena

Representing the Cities of Los Angeles County, Eastern Region



**34 Cities - 2 million residents**

## ***AIR QUALITY UPDATE - CITY OF MONROVIA***

***June 20, 2023, at 7:30 p.m.***





# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

1976 - Formed to Meet Federal & State Health Standards for Air Pollution



Congressman Jerry Lewis - R (CA-41) appeals for clean air on January 8, 1970; as an Assemblyman with a petition of more than 140,000 Inland Empire signatures. Lewis on the left and Lieutenant Governor Ed Reinecke on the right are joined by other members of the California Legislature in a joint effort to reduce air pollution.

Los Angeles San Bernardino  
Orange Riverside

**17 Million People**

**28,000 Permitted Sources**

**67% of EJ population in California lives in region**



**One-third of all US containerized cargo**

# SOURCES OF AIR POLLUTION

## STATIONARY SOURCES = 20%



Cleaners & Solvents



Paint



Autobody



Gas Stations



Power Plant & Industry



Refineries

## MOBILE SOURCES = 80%



Oceangoing Vessels



Airplanes



Trains



Trucks



Off-road Equipment



Cars

**SOUTH COAST AIR BASIN DOES *NOT* MEET FEDERAL STANDARDS FOR OZONE (aka SMOG) and PM2.5 (Particulate Matter)**

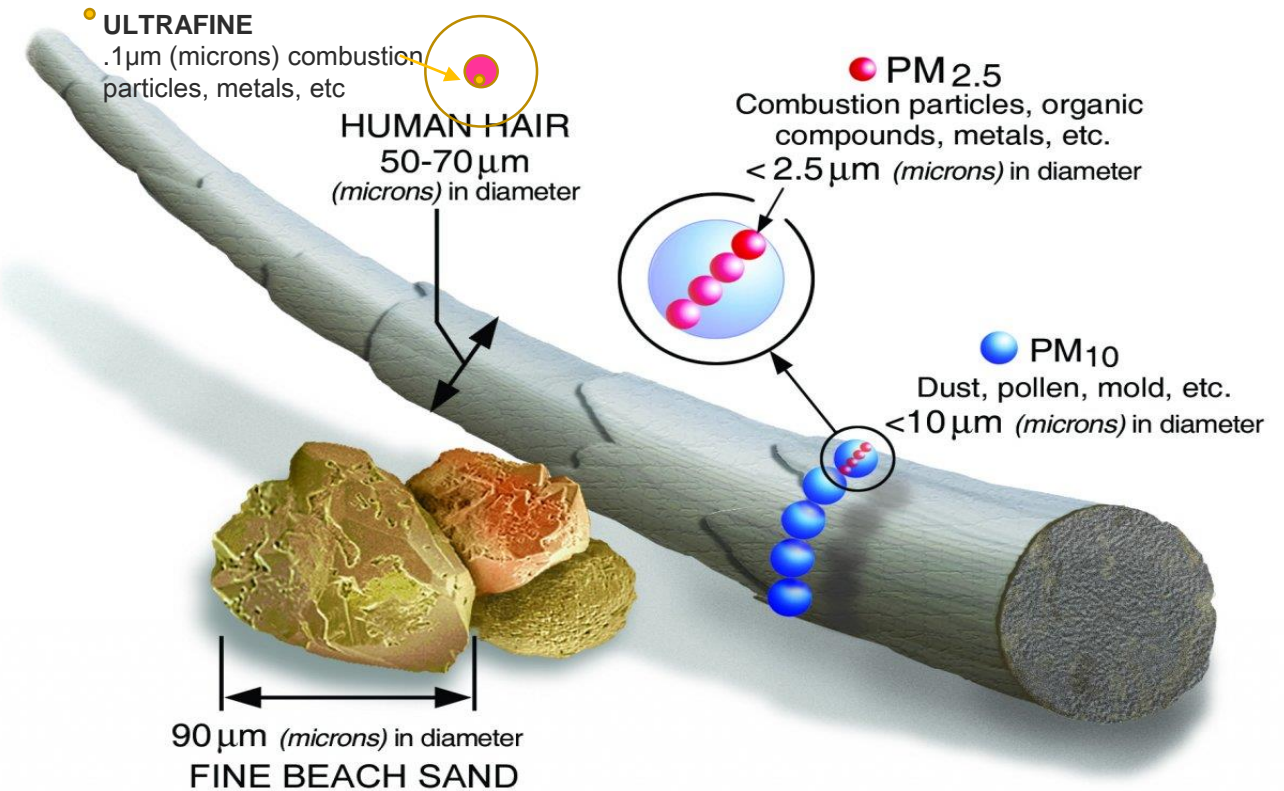
# AIR POLLUTION IN SOUTH COAST REGION

## OZONE (aka SMOG)

Formed in atmosphere through chemical reaction of air pollutants - nitrogen oxides (NOx) and volatile organic chemicals (VOCs) - in presence of sunlight.

- The largest source of NOx are ships, aircraft, off-road equipment, heavy-duty trucks and locomotives.

## Particulate Matter 2.5 (PM2.5)



Fine inhalable particles emitted directly or formed in atmosphere through a chemical reaction of gases, including NOx and other pollutants.

- Direct sources of air pollutants are road dust, diesel soot, combustion engines.

# HEALTH IMPACTS

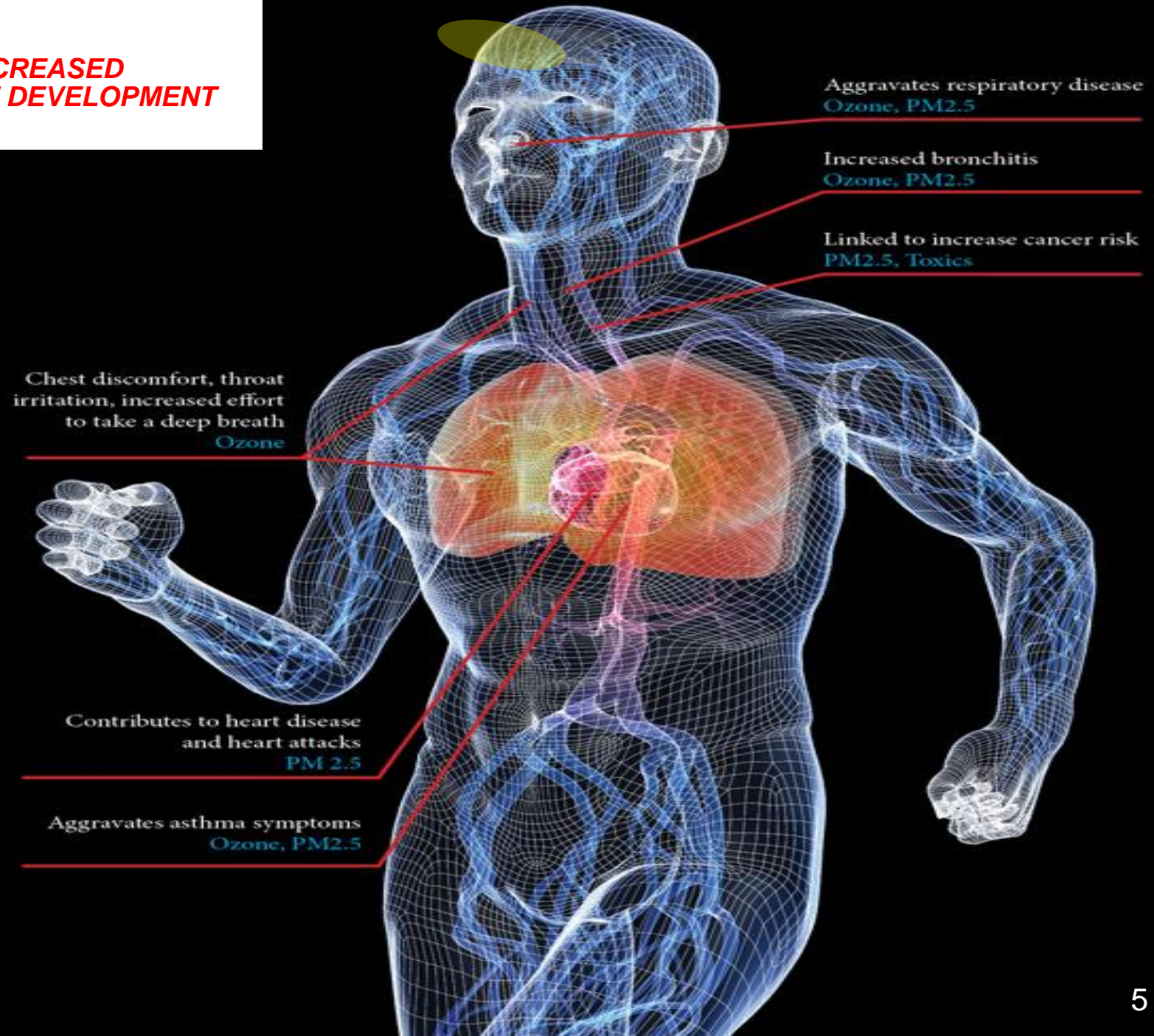
**RESPIRATORY, CARDIOVASCULAR, METABOLIC, INCREASED CANCER RISK, COGNITIVE, PHYSICAL & COGNITIVE DEVELOPMENT FOR CHILDREN**

*“Mom’s Exposure to Dirty Air in Pregnancy Could Harm a Toddler’s Development” – USNews.com, 1/26/2023*

*“Even Brief Exposure to Air Pollution has Rapid Impacts on the Brain” – Neurosciencenews.com, 1/24/23*





*“Clearing Air Pollution Helps Clear the Fog of Aging – And May Cut the Risk of Dementia” – Kaiser Health News, 9/20/22*

*“Scientists Find Clues to How Air Pollution May Trigger Lung Cancer” – CNN Health, 9/12/22*



# HEALTH IMPACTS

**MEETING AIR STANDARDS = MAJOR PUBLIC HEALTH BENEFITS**

Prevent Premature Deaths	Prevent Hospitalizations	Prevent Work and School Loss Days	Potential Annual Monetized Public Health Benefits*
<b>1,500 / year</b>	<b>8,700 / year</b>	<b>163,000 / year</b>	<b>\$19.4 Billion</b>
			
<b>In comparison, ~1,350 traffic fatalities in 2019 in South Coast region</b>	<b>Affects on children: Low Birth Weight, Lung Growth, Asthma</b>	<b>Impacts are highest in Environmental Justice (EJ) communities</b>	<b>From higher cancer risk, respiratory &amp; cardiovascular diseases, greater susceptibility to infections</b>

\* <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/socioeconomic-analysis>  
[http://publichealth.lacounty.gov/mch/AsthmaCoalition/docs/BenefitsofMeetingCleanAirStandards\\_11\\_06\\_08.pdf](http://publichealth.lacounty.gov/mch/AsthmaCoalition/docs/BenefitsofMeetingCleanAirStandards_11_06_08.pdf)

# Progress & Challenges:

## ...MEETING HEALTH-BASED AIR QUALITY STANDARDS

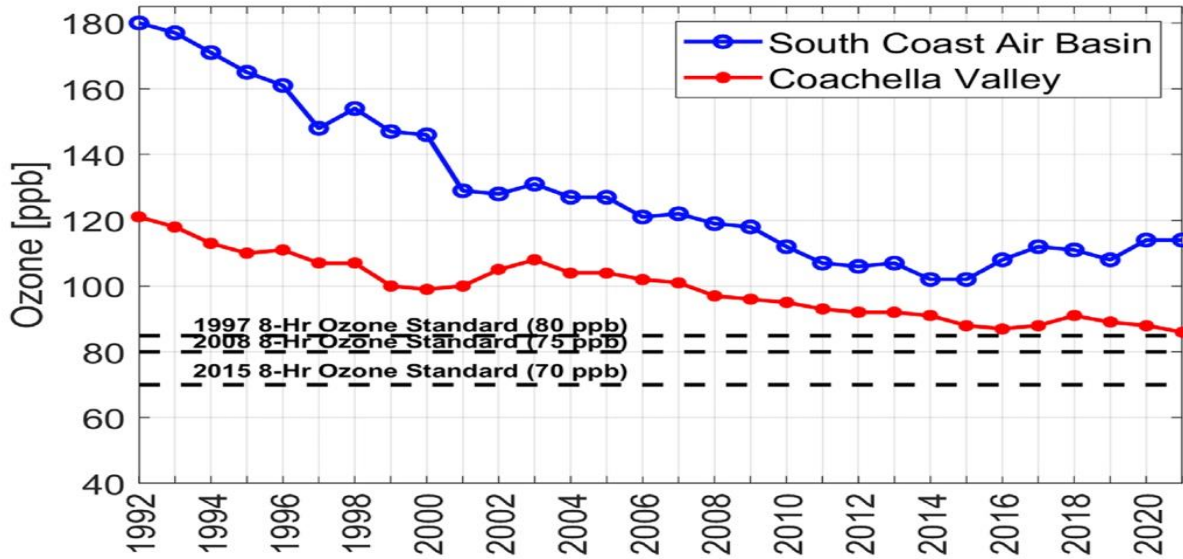
### GOOD NEWS

- Air Pollution & Air Toxics Greatly Reduced

### AIR POLLUTION



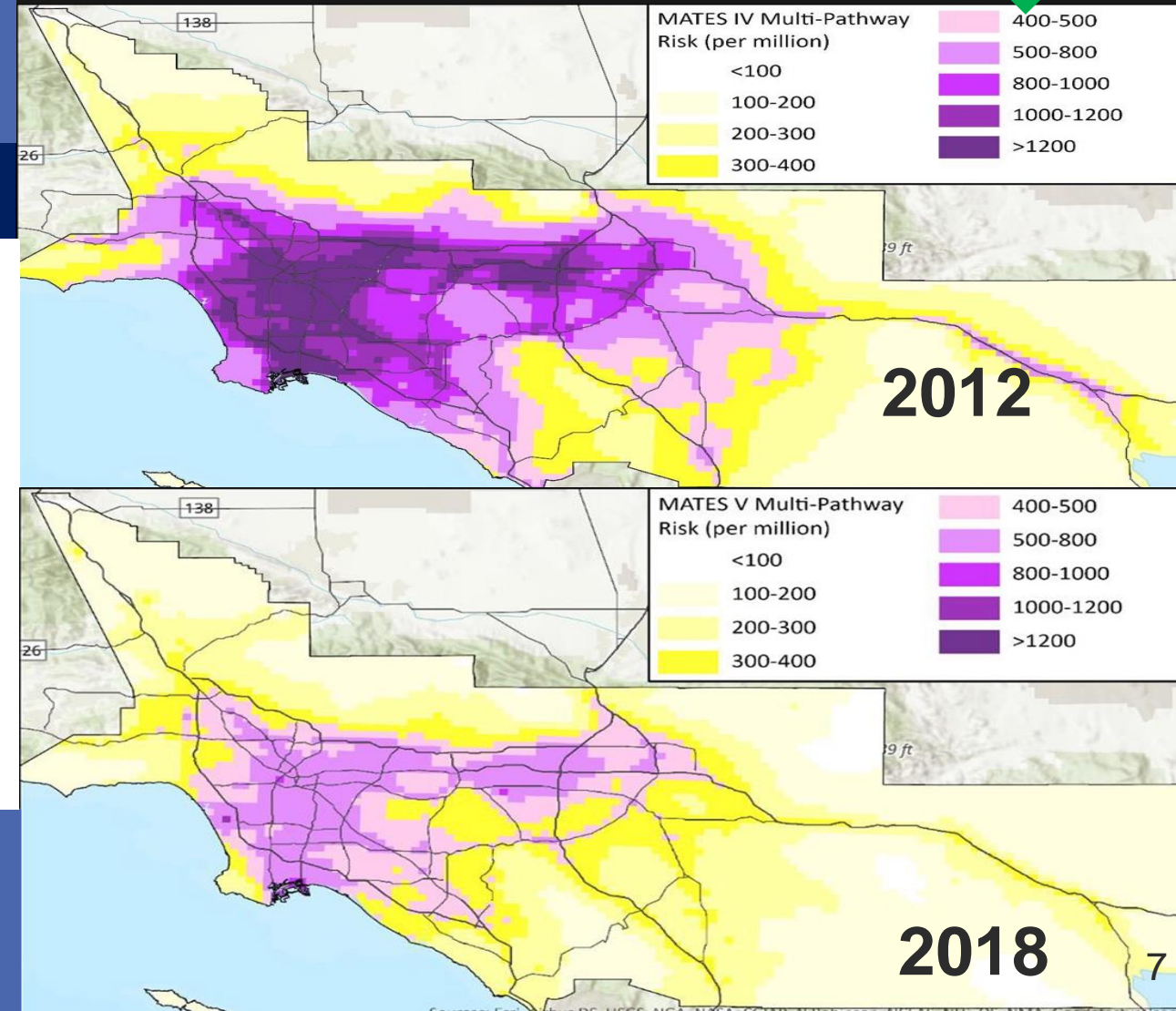
8-Hour Ozone Design Values



From 2012 to 2018:

Cancer risk decreased from 997 in-a-million to 454 in-a-million

### CANCER CAUSING AIR TOXICS



# Progress & Challenges:

## **...MEETING HEALTH-BASED AIR QUALITY STANDARDS**

### **BAD NEWS**

- Our Region has Some of the Worst Air Quality in Nation:

***Mobile Sources Contribute Over 80% of Air Pollution in Region***





# What If...?

**SOUTH COAST AIR BASIN DOES *NOT* MEET FEDERAL STANDARDS FOR OZONE (aka SMOG) and PM2.5 (Particulate Matter)**

## U.S. EPA

- National air quality standards
- Regulates sources
  - Stationary
  - Mobile
- Sanctions on states

## CARB

- Regulates mobile sources
- Incentivizes Technologies
  - Infrastructure
  - Mobile Source

## South Coast AQMD

- Plans to meet national air quality standards
- Regulates
  - Stationary sources
  - Mobile (limited)
- Incentivizes
  - Mobile sources

If South Coast Air Basin does not meet federal standards under Clean Air Act \* ... sanctions could be triggered. Preliminary estimated costs:



**Stationary Sources:**  
**\$40-50 million per year**  
**in additional fees or**  
**permitting costs**



**Federal Highway**  
**Funding: \$600 million**  
**per year before**  
**considering Bipartisan**  
**Infrastructure Law**



**Federal**  
**Implementation Plan:**  
**unknown costs, but**  
**anticipated to be high**

\* There are several deadlines for multiple standards. Some impending deadlines are in **2023, 2031, 2037.**

# Road to Clean Air

## ... Residential Incentives

Visit <http://www.aqmd.gov/home/programs> or use QR Code to learn more about AQMD Incentive Programs



### CLEAN FURNACE



**Up to \$1,500**  
for **CLEANair**  
Furnace  
Rebate  
Program\*

### ELECTRIC LAWNMOWER



**Up to \$250**  
per  
Electric  
Lawnmower

### EV CHARGER



**\$250 or more**  
Rebate for  
Level 2  
(240V) EV  
Charger

### REPLACE YOUR RIDE



**Up to \$9,500**  
for clean air  
vehicle,  
transit passes,  
car-sharing, or  
an e-bike

\* New program in development for zero-emission appliances for space and water heating.

# Road to Clean Air

## ... Commercial & City Incentives

Visit <http://www.aqmd.gov/home/programs> or use QR Code to learn more about South Coast AQMD Incentive Programs



# Total investment program wide since 2008: \$1.2B

**Up to 85% Discount**  
**New program:** Commercial Landscaping Equipment

Charging & Fueling Infrastructure

Vehicles: Light, Medium & Heavy-Duty

Off-Road Equipment, Marine Vessels & Locomotives



# CLEAN AIR INVESTMENTS IN THE CITY OF MONROVIA



## Clean Air Funds – 2008 to Present

- \$909,970
- 44-count of equipment/vehicle/station
- Program: Carl Moyer, Replace Your Ride, Prop 1B



## Mobile Source Air Pollution Reduction Review Committee (MSRC)

[www.CleanTransportationFunding.org](http://www.CleanTransportationFunding.org)



## AB 2766 Motor Vehicle Subvention Funds

*(Funding to Cities to reduce air pollution from motor vehicles)*

- 2020-21 balance: \$271,165
- 2021-22 disbursed: \$49,428.42
- Recent projects: alternative fuel infrastructure, EV charging, EV purchase, residential rebate program



# Access Services & Protect Your Health:

## *SOUTH COAST AQMD*



**Small Business Assistance**  
**1-800-388-2121**  
**Complaint Hotline**  
**1-800-CUT-SMOG or**  
**1-800-288-7664**

**Free mobile phone App**  
 for real time air quality information, alerts, and to file complaints



**Provides air quality information at community level**  
 from 39 permanent multi-pollutant and 4 single-pollutant air monitoring sites

**Free “Sensor Educational Toolkit”**  
 to the public to learn about low-cost sensors

# CONTACT US

## *Ways to Stay Connected @SouthCoastAQMD*

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**THANK YOU**



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