



# South Coast Air Quality Management District



21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

## YOUNG LEADERS ADVISORY COUNCIL

### Advisory Council Members

Fabian R. Wesson, Chair  
James Albert  
Joshua Bell  
Michelle Benavides  
José Trinidad Castañeda, III  
Michelle Choi  
Elise Eifler  
Cristian Garza  
David Herman  
Evelyn Hurtado-Doppenberg  
Cassie Nguyen  
Nithya Palani  
Teresa Ramirez  
Mariangela Rincon  
Brian Robey  
Paije Rush  
Lizbeth Sierra  
Charles Smith  
Melissa Taha  
Janielle Vidal  
Mikayla Winfery

**May 30, 2018 ♦ 12:30 p.m. ♦ Conference Room CC-2  
21865 Copley Drive, Diamond Bar, CA 91765**

*Call-in for listening purposes only is available by dialing:*

*Toll Free: 1-888-394-8197*

*Listen Only Passcode: 8682951*

### AGENDA

#### CALL TO ORDER

#### ACTION ITEMS (Items 1 through 3):

1. Call to Order/Opening Remarks  
(*No Motion Required*)

*Fabian Wesson  
Assistant Deputy Executive  
Officer/Public Advisor  
Legislative, Public Affairs &  
Media*

2. Approval of February 28, 2018 Meeting Minutes  
*(Motion Required)*  
*[Attachment 1]*

*Fabian Wesson*
  
3. Review of Follow-Up/Action Items  
*(No Motion Required)*  
*Staff will review the follow-up/action items identified in the previous meeting.*

*Monika Kim*  
*Legislative Assistant*  
*Legislative, Public Affairs & Media*

**DISCUSSION ITEMS (Items 4 through 6):**

4. Air Pollution and its Effects on Health  
*(No Motion Required)*  
*Staff will give a presentation on air pollution and its effects on health.*  
*[Attachment 2]*

*Pedro Piqueras*  
*AQ Specialist*  
*Planning, Rule Development & Area Sources*
  
5. SCAQMD Lab Tour  
*(No Motion Required)*  
*Staff will give a tour of SCAQMD's lab.*

*Aaron Katzenstein*  
*Lab Services and Source Testing Manager*  
*Science & Technology Advancement*
  
6. Member Updates  
*(No Motion Required)*

*All*

**OTHER MATTERS:**

7. Other Business  
*Any member of this body, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Govt. Code Section 54954.2)*
  
8. Public Comment Period  
*Members of the public may address this body concerning any agenda item before or during consideration of that item (Govt. Code Section 54954.3(a)). All agendas for regular meetings are posted at District Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72*

*hours in advance of a regular meeting. At the end of the regular meeting agenda, an opportunity is also provided for the public to speak on any subject within the Young Leaders Advisory Council's authority. Speakers may be limited to three (3) minutes each.*

9. **Next Meeting Date** – Wednesday, July 25, 2018 at 12:00 p.m.

## **ADJOURNMENT**

### **Document Availability**

*All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available prior to the meeting for public review at the South Coast Air Quality Management District, Public Information Center, 21865 Copley Drive, Diamond Bar, CA 91765.*

### **Americans with Disabilities Act**

*The agenda and documents in the agenda packet will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). Disability-related accommodations will also be made available to allow participation in the Legislative Committee meeting. Any accommodations must be requested as soon as practicable. Requests will be accommodated to the extent feasible. Please contact Monika Kim at (909) 396-2342 from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to [mkim@aqmd.gov](mailto:mkim@aqmd.gov).*

# ATTACHMENT 1



## South Coast Air Quality Management District

South Coast AQMD 21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

### YOUNG LEADERS ADVISORY COUNCIL WEDNESDAY, FEBRUARY 28, 2018 MEETING MINUTES

#### **MEMBERS PRESENT:**

James Albert  
Joshua Bell  
Michelle Benavides  
José Trinidad Castañeda, III  
Michelle Choi  
Cristian Garza  
David Herman  
Evelyn Hurtado-Doppenberg  
Cassie Nguyen  
Nithya Palani  
Brian Robey  
Lizbeth Sierra  
Mikayla Winfery

#### **MEMBERS ABSENT:**

Elise Eifler  
Teresa Ramirez  
Mariangela Rincon  
Paije Rush  
Charles Smith  
Melissa Taha  
Janielle Vidal

#### **SCAQMD STAFF:**

Jill Whynot, Chief Operating Officer  
Derrick Alatorre, Deputy Executive Officer  
Fabian R. Wesson, Assistant DEO/Public Advisor and YLAC Chair  
Nancy Feldman, Principal Deputy District Counsel  
Brandee Keith, Secretary  
Monika Kim, Legislative Assistant

#### **Agenda Item #1 – Call to Order**

Ms. Fabian Wesson called the meeting to order at 12:00 p.m.

#### **Agenda Item #2 – Welcoming Remarks**

Ms. Jill Whynot welcomed members to the first meeting of the Youth Leadership Advisory Council (YLAC), and made a brief statement on the purpose of the council and the goals of South Coast Air Quality Management District (SCAQMD) staff and Board Members in educating and facilitating communication with young leaders in local communities affected by air pollution. Mr. Derrick Alatorre added to the welcoming remarks by recognizing the efforts of Mr. Cristian Garza, in drawing attention to the need for youth representation to the SCAQMD, facilitating the first steps in formation of the YLAC.

### **Agenda Item #3 – Introductions of New Members**

Ms. Wesson introduced each SCAQMD staff member and they in turn spoke briefly about their position within the SCAQMD and their intended role in serving the YLAC.

After staff introductions, members of the YLAC each introduced themselves and spoke briefly about their education, career goals, personal involvement, and experience in Environmental Justice.

### **Agenda Item #4 – SCAQMD Overview**

Ms. Wesson presented an overview of SCAQMD's role in environmental regulation, including the goals of the agency, the need for active air quality improvement in the region, health effects of air pollution, and channels by which to submit complaints or report violations to the agency.

Mr. Jose Castañeda inquired whether staff might speak on SB 1000, regarding changes to Planning and Zoning law in accordance with environmental justice goals. Mr. Alatorre stated that a discussion or presentation regarding the bill would be possible in the future, depending on whether SCAQMD took a position on the bill. As of now the district has not stated a position.

Mr. James Albert spoke regarding the proposal for a sales tax increase, and proposed an alternative to raising the sales tax, SCAQMD and legislature could work to require major polluters to pay a "fair share" on activities such as oil extraction. Ms. Wesson and Mr. Alatorre acknowledged that proposing and discussing alternative strategies for effective regulation would be an important part of YLAC activities. For additional background and opportunities to become even more involved, staff referred members to the agency's public Legislative Committee sessions, encouraging them to attend.

Ms. Mikayla Winfery brought up recent concerns regarding metal finishing companies in Paramount, and the process of anodizing which led to increased levels of hexavalent chromium in the area. Ms. Winfery inquired whether this process and these pollutants were regularly monitored by SCAQMD, which staff confirmed they were.

Ms. Evelyn Hurtado-Doppenberg inquired whether SCAQMD's regulatory efforts extended to warehouses as well as refineries and other industrial sources. Staff confirmed warehouses were subject to the agency's efforts, but clarified that many of the sources of pollutants in warehouse facilities came from mobile sources such as trucks, which are difficult to regulate and do not fall cleanly under SCAQMD's jurisdiction. Mr. Alatorre further clarified that cities often resist SCAQMD input on issues of local development and construction, such as in the case of the World Logistics Center.

Mr. Castañeda offered positive comment regarding the SCAQMD Twitter feed, and Ms. Nancy Feldman reminded members that SCAQMD made committee meetings and hearing board meetings available via livestream, and that the public could also participate in meetings via teleconference, though the teleconference was made available as "listen-only," and did not allow for two-way exchange.

Mr. Albert proposed the agency consider ways to evolve this format so that two-way communication would be more feasible, allowing for more wide-reaching messages in town hall or other community meetings, facilitating a broader dialogue with affected residents and communities. Staff acknowledged that a two-way teleconference format had been successfully adopted for a series of meetings regarding Paramount, with positive results.

Mr. Albert pointed out that a more interactive format would attract more input from residents, especially young adults, who respond more positively towards visual engagement. Staff acknowledged that such a set-up on a large scale would be difficult to manage, but could be feasible with more investigation and planning.

Members watched a short film produced by SCAQMD titled *Do One Thing*.

Ms. Cassie Nguyen stated appreciation for the video's mention of walkability and other alternative transport such as bicycles. Ms. Nguyen further pointed out that for some neighborhoods, especially in EJ areas, safety was a major concern to residents which might lead to less willingness to walk rather than drive to their destinations. Staff acknowledged that in order to increase residents' efforts to walk or use other alternative transit, the safety of such travel must be considered.

Mr. David Herman wished to clarify that from a medical standpoint, the relation between air pollution and health was not a linear relation, and that "pure" air with no pollutants whatsoever would also be unhealthful for the population. Mr. Castañeda pointed out that for the purposes of communicating air quality issues to residents and local youth, it would still be important to refer to clean technological alternatives as "zero emissions." Ms. Michelle Benavides agreed that the council should set high goals in its messaging efforts.

Ms. Hurtado-Doppenberg suggested pursuing subsidies for bicycles as a means of encouraging cleaner transportation options, which was positively received by the council. Ms. Nguyen added that programs for bicycle rentals had already been implemented with some success.

#### **Agenda Item #5 - Adoption of YLAC Goals and Objectives for 2018**

Ms. Monika Kim referred members to their meeting materials for a breakdown of the proposed Goals and Objectives, which members briefly reviewed before the floor was opened to discussion.

Mr. Garza asked if SCAQMD supported any current school education programs. Ms. Feldman confirmed there had previously been such a program, but it had been discontinued. She offered her support of re-opening such a program in the future. Ms. Wesson agreed the program should be re-explored and gave some examples of previous efforts she would like to see pursued, such as a coloring contest for young children and an educational "speakers series."

Mr. Castañeda mentioned that a proposal by the Attorney General for the establishment of an Environmental Justice Bureau, and suggested the council keep an eye on the developments.

Mr. Albert pointed out there was a discrepancy between SCAQMD's definition of environmental justice and the frontline communities definition, and requested the council work to bring these definitions into line with one another. Staff clarified that different sources use different criteria to define environmental justice, but that the YLAC can work to consolidate the definitions.

Mr. Albert inquired what could be done at the local level to empower communities to apply for air quality programs, and staff pointed out that AB617 would be a large factor in bringing new programs to EJ Communities.

Mr. Castañeda motioned the Goals and Objectives for 2018 to be adopted by the council. Evelyn Hurtado-Doppenberg seconded. Floor was opened to discussion, of which there was none. The motion passed by unanimous vote.

**Agenda Item #5 - Adoption of YLAC Meetings**

Evelyn Hurtado-Doppenberg motioned for the 2018 Calendar of YLAC Meetings be adopted. After some discussion by members, meeting times were amended from 12:00 pm to 12:30 pm, anticipating a 2-hour run time to end at 2:30 pm.

Mr. Castañeda motioned the Goals and Objectives for 2018 to be adopted as amended by the council; Mr. Garza seconded. Motion passed unanimously.

**Agenda Item #7 – Other Business**

Mr. Castañeda asked how communities would be able to apply for air quality sensors to be installed in their area.

*Action Item: Staff to look into this matter and respond to Mr. Castañeda's inquiry.*

Mr. Albert inquired whether it would be considered a conflict of interest for a member of the YLAC to bring community members to meetings. Staff did not foresee a conflict and welcomed members to do so.

Ms. Hurtado-Doppenberg inquired whether it would be considered a conflict of interest for members of the YLAC to endorse third-party opinions and statements regarding SCAQMD.

*Action Item: Staff to check with Legal and report back to the YLAC.*

Mr. Garza requested clarification on whether the cost of public transportation to and from YLAC meetings and activities would be reimbursed by SCAQMD.

*Action Item: Staff to check reimbursement policy and report back.*

**Agenda Item #8 – Public Comment**

No comments.

**Agenda Item #9 – Next Meeting Date**

The next regular Young Leaders Advisory Council meeting is scheduled for Wednesday, May 30, 2018 at 12:30 p.m.

**Adjournment**

The meeting adjourned at 2:10 p.m.



## ATTACHMENT 2

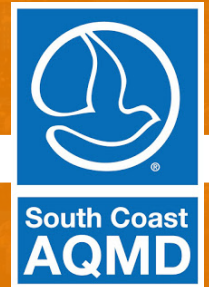
*Presentation for:*

**Youth Leaders Advisory Group  
(YLAC)**

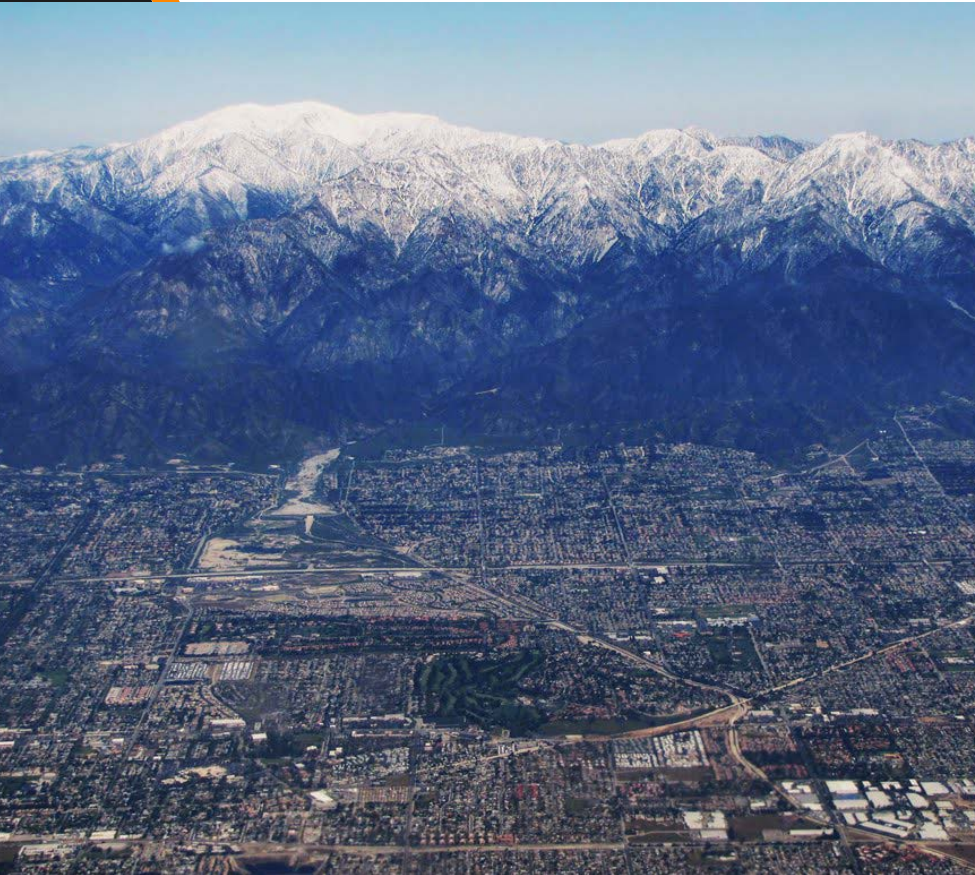
May 30th, 2018

# **Air Pollution And its Effects on Health**

Pedro Piqueras, Ph.D.  
Air Quality Specialist, Health Effects  
South Coast Air Quality Management District





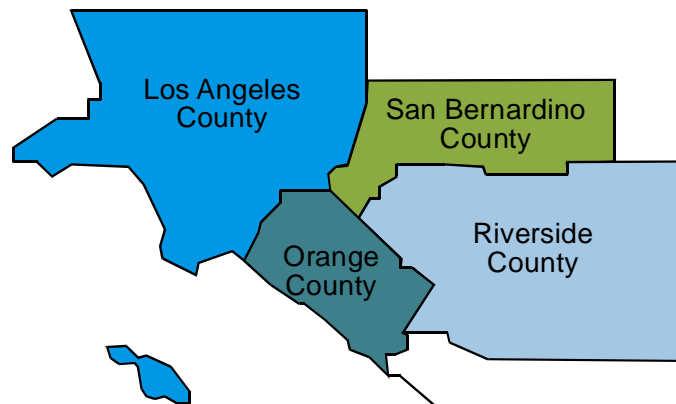


NOAA

# Who is the SCAQMD?

Regional government agency responsible for protecting our residents from the health effects of air pollution

- ▶ What we do:
  - ▷ Develop regional **Air Quality Management Plan**
  - ▷ Adopt air quality **rules and regulations**
  - ▷ Issue **permits**
  - ▷ Conduct periodic **inspections and respond** to air quality complaints
  - ▷ Conduct **air monitoring**
  - ▷ **Engage** with all stakeholders
  - ▷ **Public outreach**



# What's in the air?

## Gases:

Oxygen, Nitrogen Oxides, Sulfur Oxides, Ozone...

## Liquids and solids:

Dust, smoke particles, water droplets...

## When does it become air pollution?

When their **concentration** is **high enough** for a **long enough period of time** to interfere with human health and/or cause environmental damage


# Key Types of Air Pollution



Greenhouse Gases

Global

The image shows a green rounded rectangle containing a circular inset of the Earth from space. Below the inset is the text 'Greenhouse Gases'. A large blue arrow at the bottom points left, with the word 'Global' written inside it.



Criteria Pollutants

Regional

The image shows a blue rounded rectangle containing a circular inset of a city skyline obscured by smog. Below the inset is the text 'Criteria Pollutants'. A large blue arrow at the bottom points right, with the word 'Regional' written inside it.



Toxic Air Contaminants

Local

The image shows an orange rounded rectangle containing a circular inset of industrial machinery with pipes and tanks. Below the inset is the text 'Toxic Air Contaminants'. A large blue arrow at the bottom points right, with the word 'Local' written inside it.

## Criteria pollutants

Common throughout the U.S.

- Carbon Monoxide ([CO](#))
- Lead ([Pb](#))
- Nitrogen Dioxide ([NO<sub>2</sub>](#))
- Particulate matter ([PM](#))
- Ozone ([O<sub>3</sub>](#))
- Sulfur Dioxide ([SO<sub>2</sub>](#))

## Toxics Air Contaminants

Community specific

- Arsenic
- Hexavalent Chromium
- Benzene
- Nickel
- Selenium
- Mercury
- ... dozens more

\* Not to be confused with **toxins**

- Both can cause **health effects**
  - (Different concentrations and different exposure times)
- Both are **monitored and regulated** by South Coast AQMD

# Particulate Matter (PM)

The sum of all solid and liquid particles suspended in the air

Classified by size:

- **PM<sub>10</sub>**
  - Coarse particles
- **PM<sub>2.5</sub>**
  - Fine particles
- **PM<sub>0.1</sub>**
  - Ultrafine particles

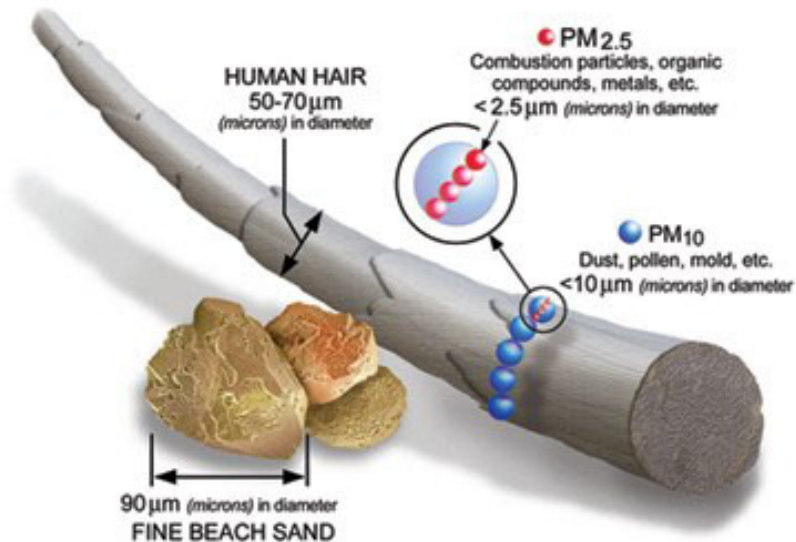
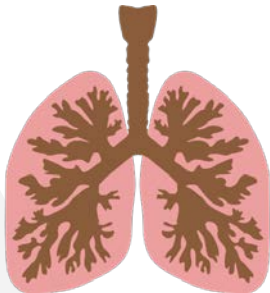


Image courtesy of the U.S. EPA



# PM Health Effects



## Respiratory:

- Asthma
- Bronchitis
- Lung function
- Irritation
- Premature death



## Cardiovascular:

- Worsened heart disease
- Premature death



## Cancers:

- Lung cancer



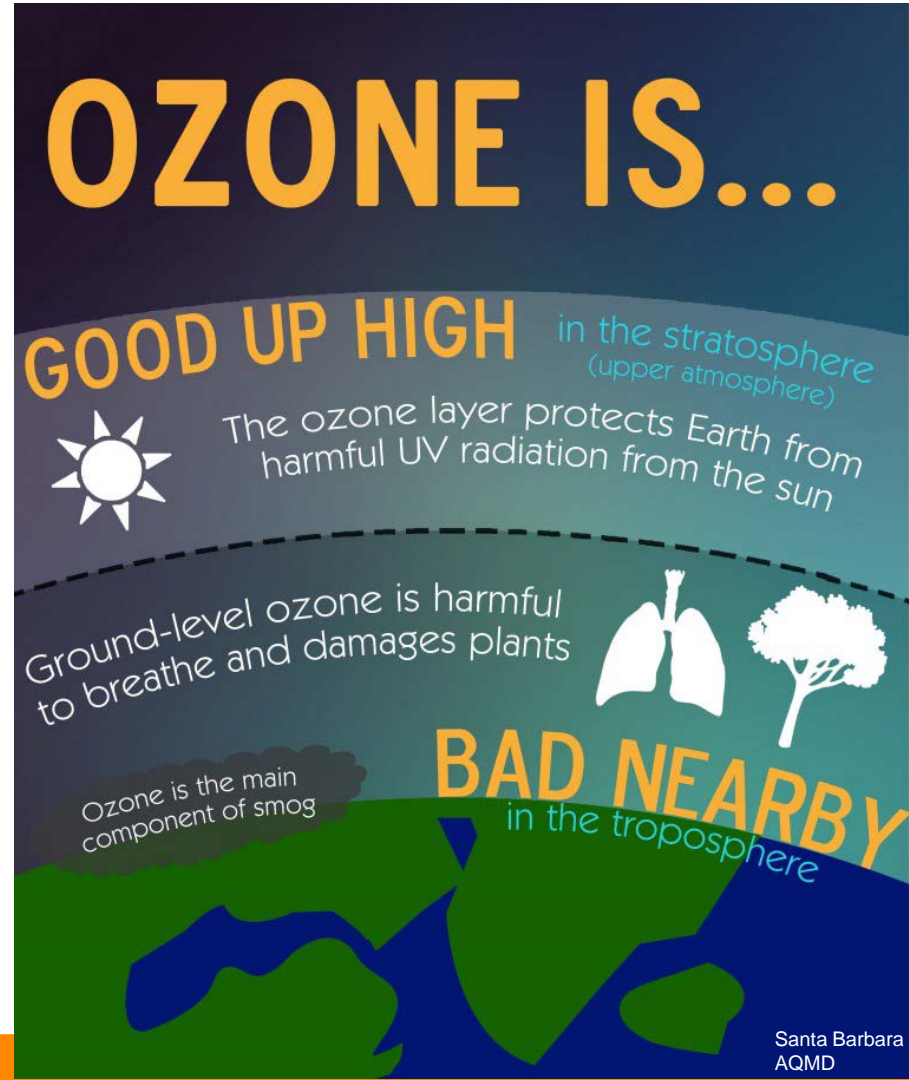
## Reproductive:

- Low birth weight



# Ozone

- ▶ Invisible **gas**
- ▶ Harmful at **ground level**
- ▶ Main component in smog in our area
- ▶ Secondary
  - ▶ It forms in the atmosphere



# Morning



**NO<sub>x</sub> + VOCs**









# Evening



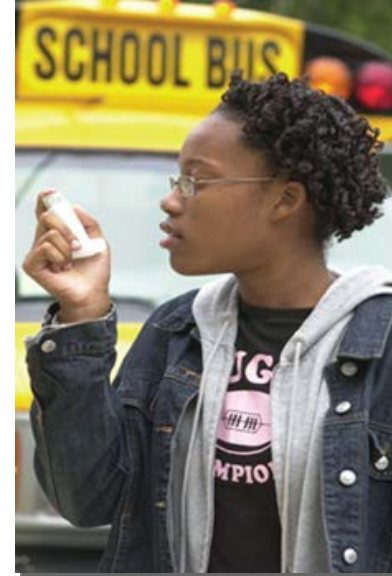
# Ozone Health Effects

- ▶ Changes in lung function
- ▶ Throat irritation
- ▶ Chest discomfort
- ▶ Increases in respiratory symptoms
  - ▶ Trouble breathing
- ▶ Exacerbation of asthma

*Increases in school absences*

*Increased mortality rates*

Higher risks of asthma for children living in communities with higher ozone levels  
(USC Children's Health Study)

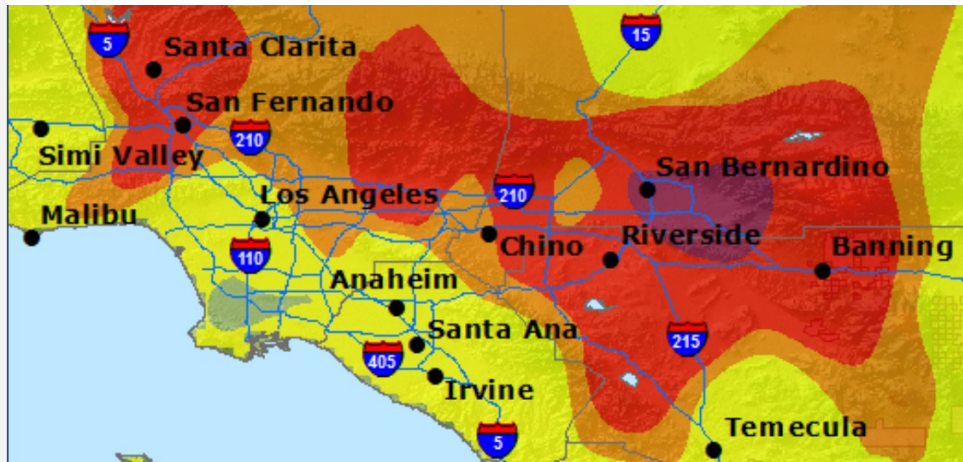


# Air Quality Index (AQI)

Five major air pollutants regulated by the Clean Air Act:

- Ground-level ozone
- Particulate matter
- Carbon monoxide,
- Sulfur dioxide
- Nitrogen dioxide.

## Early evening



[www.airnow.gov](http://www.airnow.gov)

AQI Value

Good  
(0–50)

Moderate  
(51–100\*)

Unhealthy  
for Sensitive  
Groups  
(101–150)

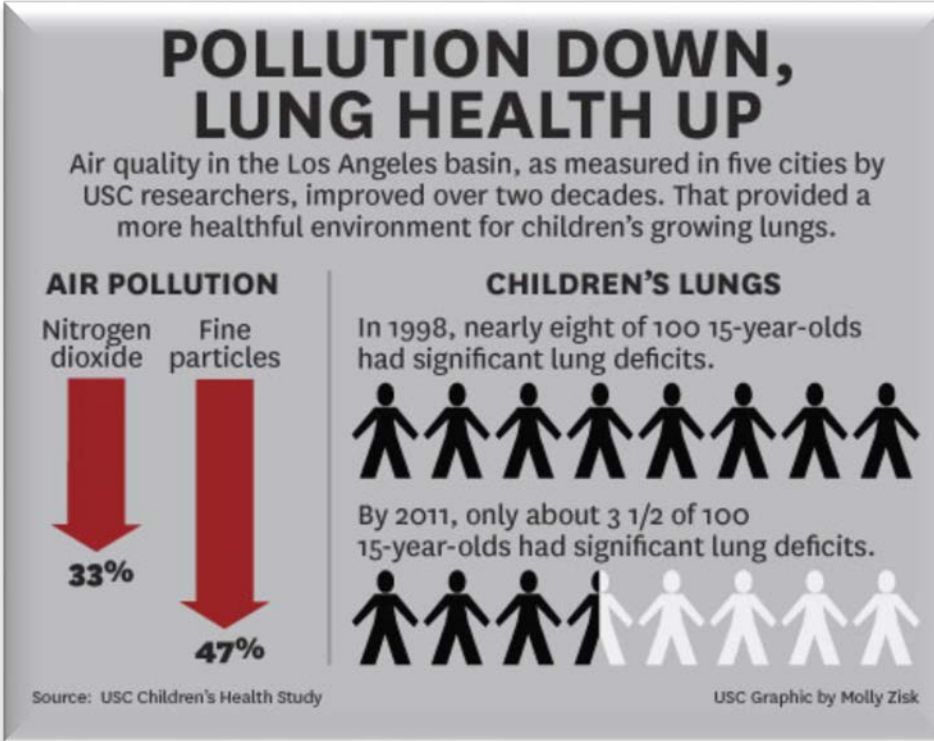
Unhealthy  
(151–200)

Very Unhealthy  
(201–300)



South Coast  
AQMD

# We've come a long way



Last 30 Years:

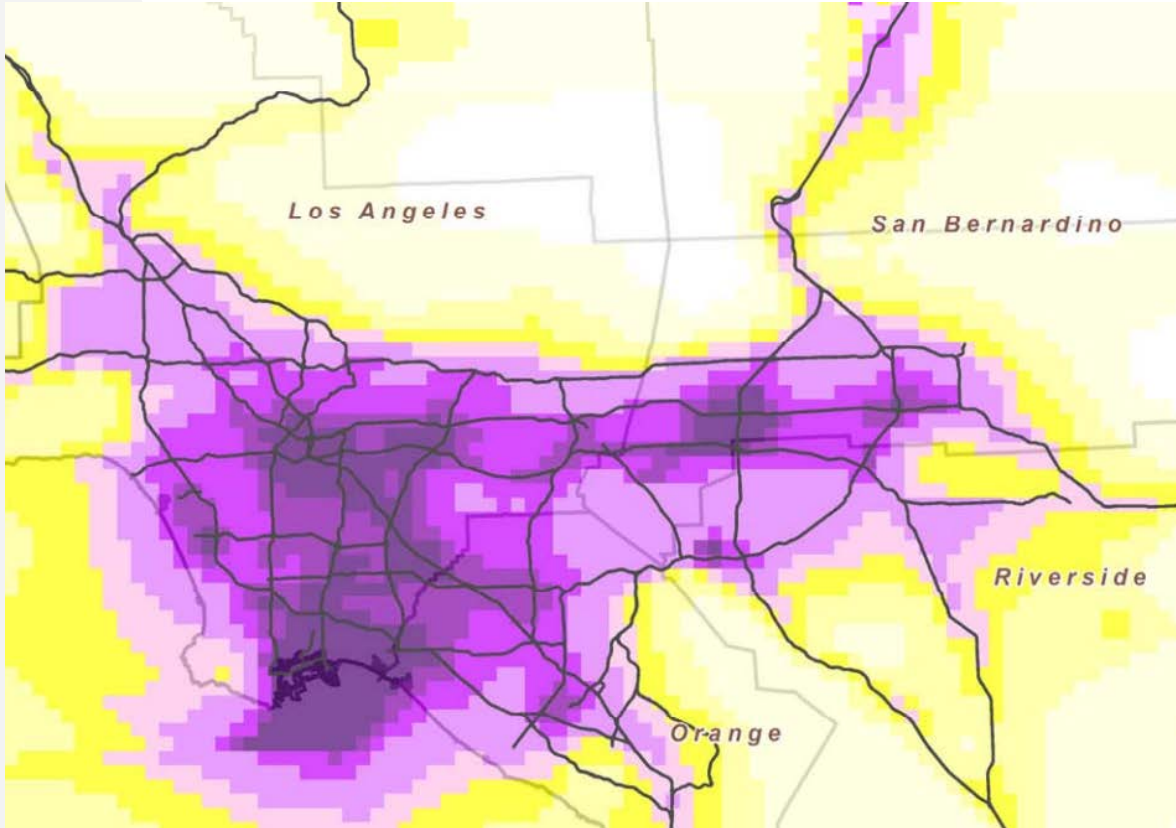
- Population increase
- Number of cars increase
- Productivity increase
- Job increase
- **Pollution levels have fallen.**

Study found Millennials in Southern California breathe easier than Gen-Xers who came of age in the 'gos.

**Better air quality** → **Better health**



# Air Toxics in 2005

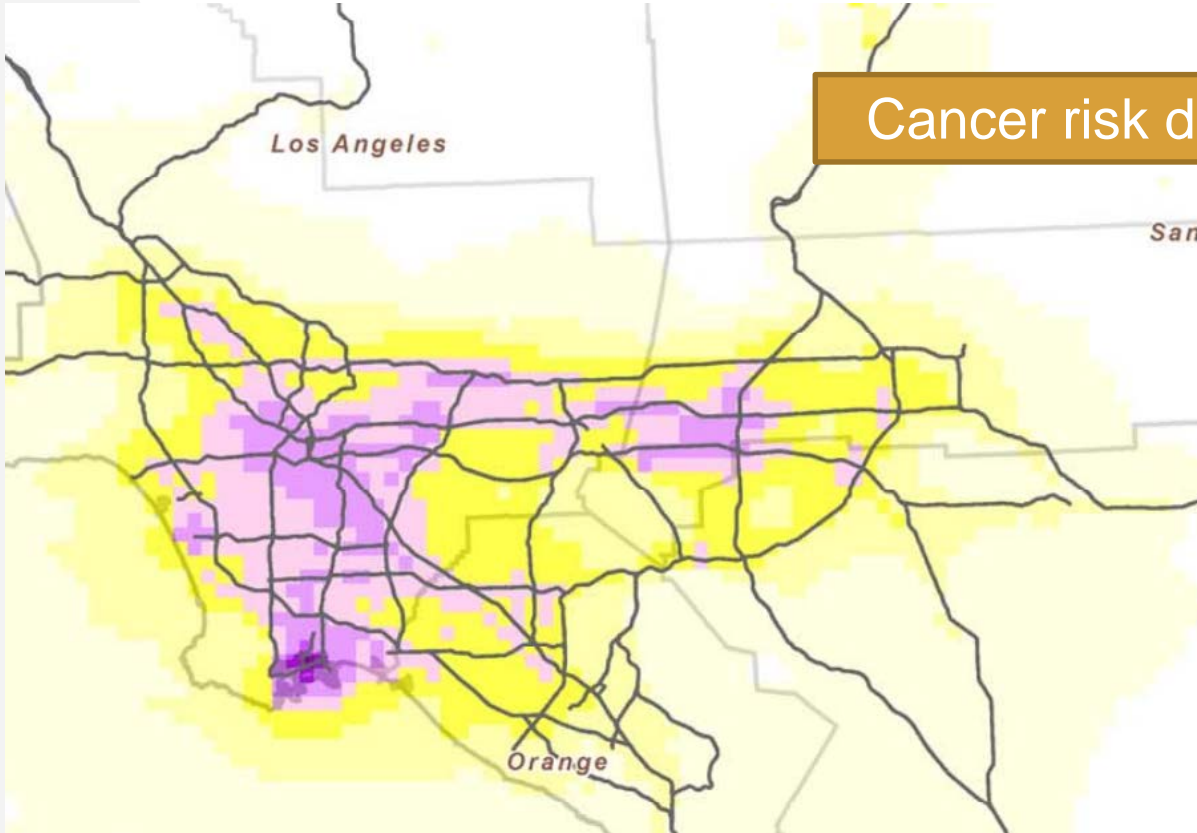


## Multiple Air Toxics Exposure Study (MATES)

- 10 monitoring stations
- Focuses on air toxics, exposure and cancer risk
- Risk assessment to estimate air toxics cancer risk

# Air Toxics in 2012

Cancer risk decreased > 50%



**Multiple Air Toxics  
Study (MATES)**

# AB 617 Goals



# Five Main AB617 Elements

Air  
Monitoring

Community  
Emission  
Reduction  
Plan

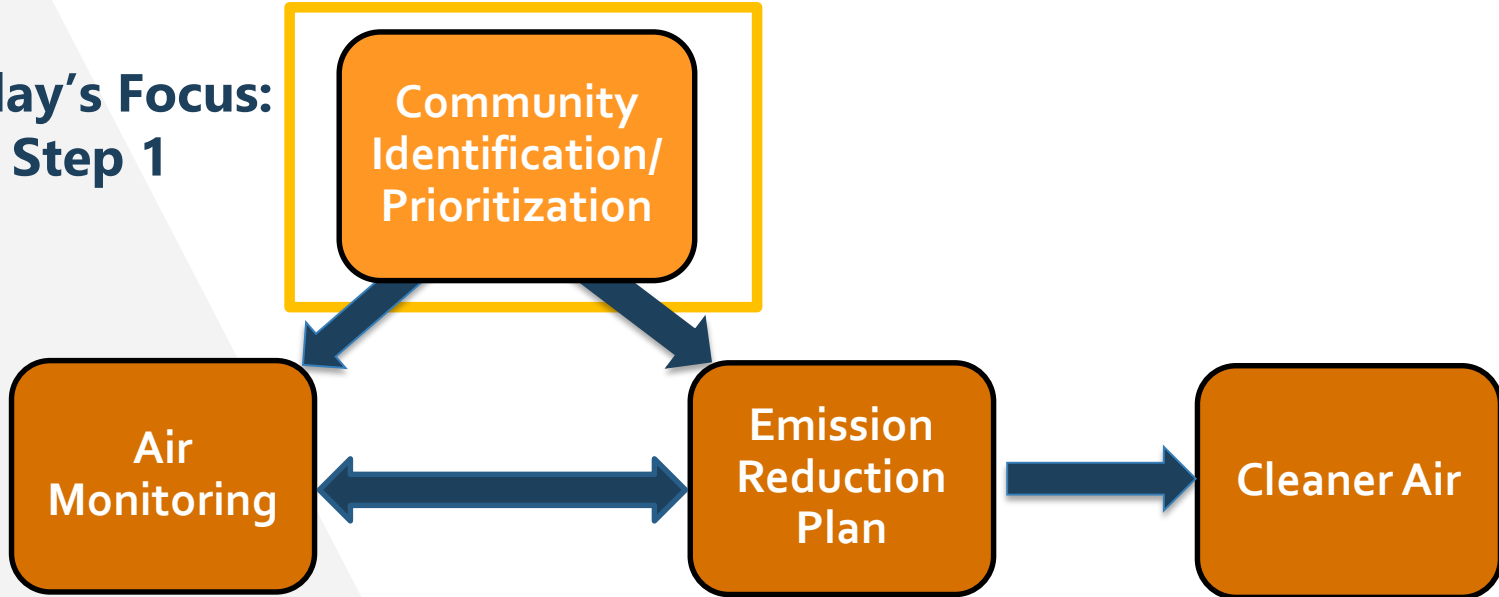
Best  
Emission  
Controls

Easier  
Access to  
Emissions  
Data

Clean  
Technology  
Investments

# Which Communities?

Today's Focus:  
Step 1



# Approach

Community  
Input

Available  
Information

Community  
Identification  
&  
Prioritization

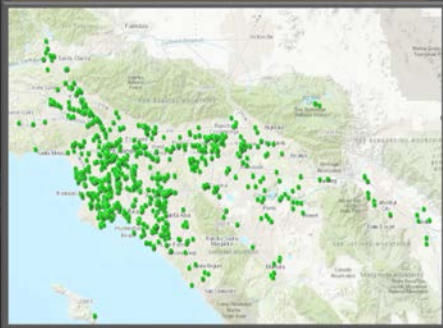




# Available information

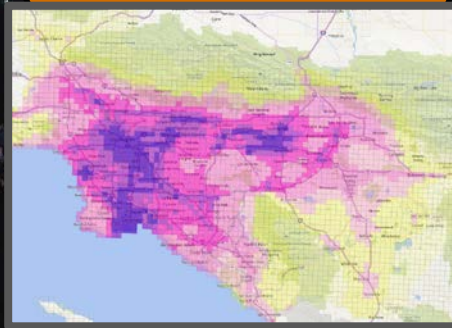
## Source Location

Permitted Facilities,  
Freight and  
Transportation Corridors



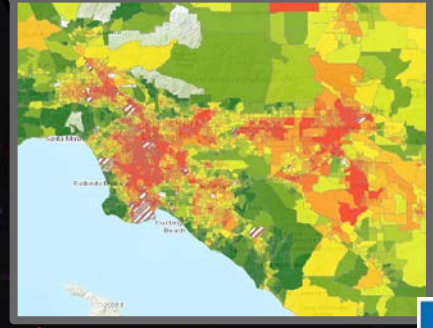
## Multiple Air Toxics Studies (MATES)

Air Toxics Cancer Risk



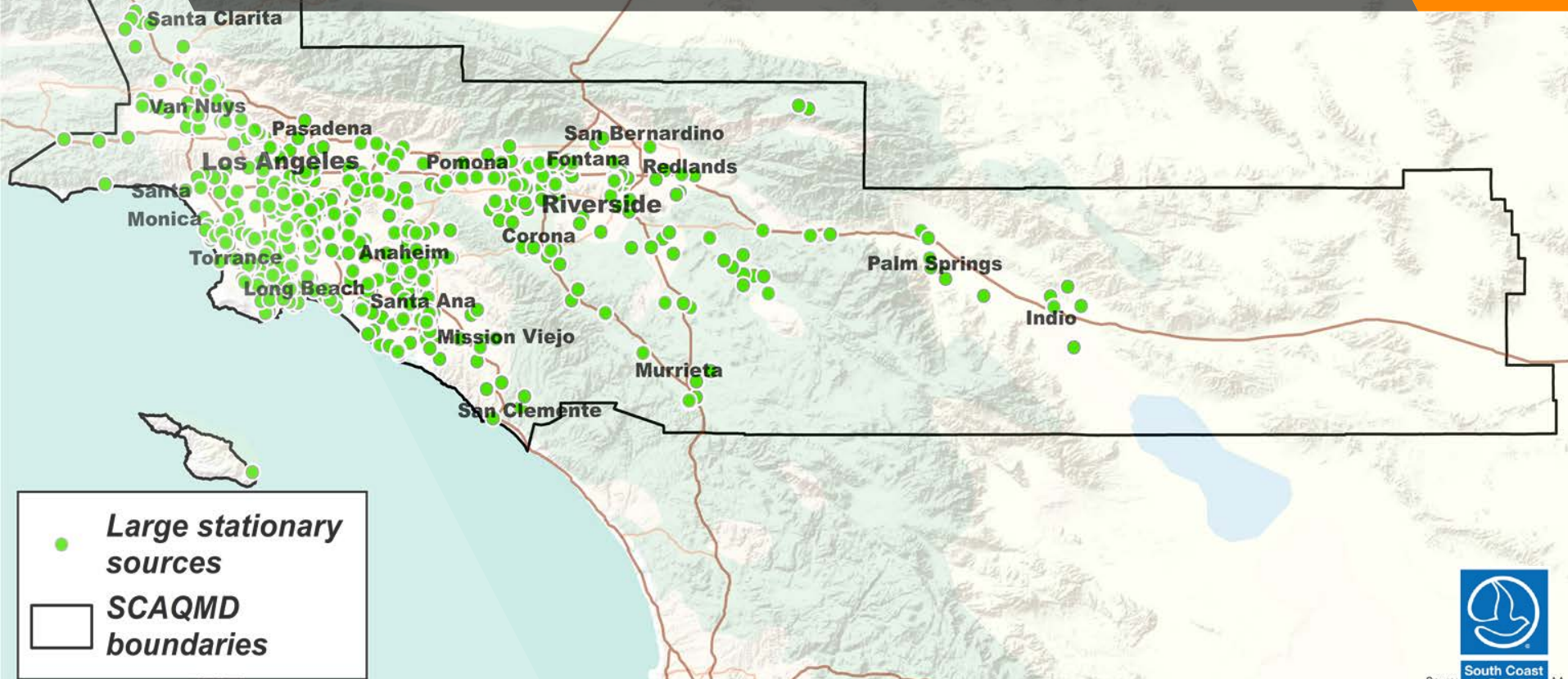
## CalEnviroScreen 3.0

Socioeconomic Factors,  
Environmental Factors





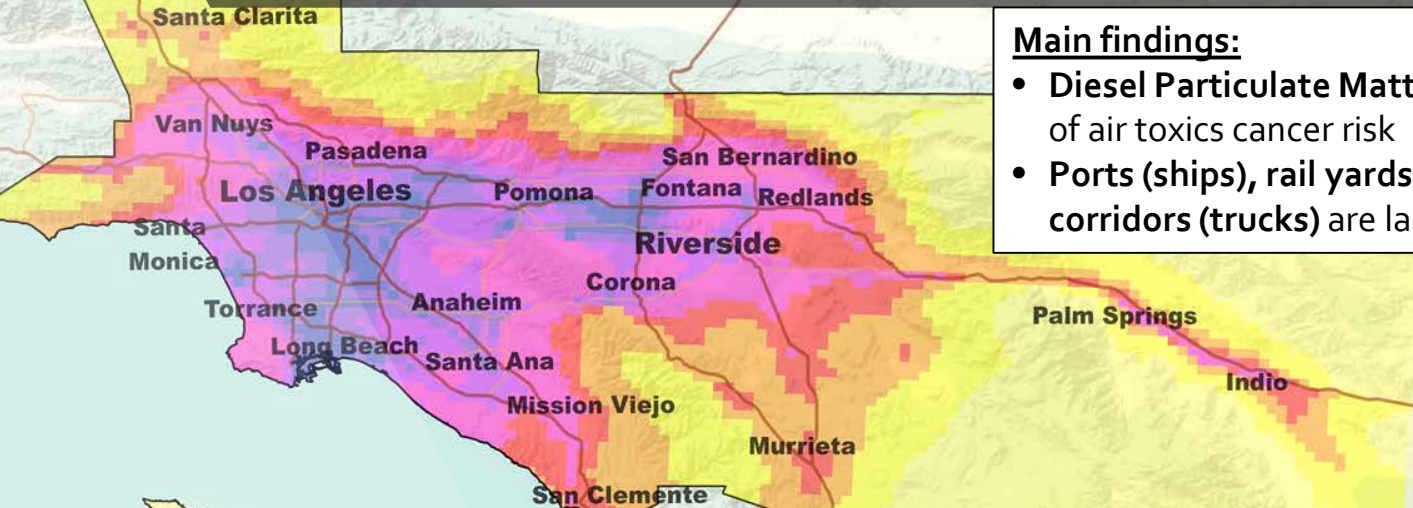
# Source location



# Air Toxics Cancer Risk

## Main findings:

- Diesel Particulate Matter (PM) accounted for 2/3 of air toxics cancer risk
- Ports (ships), rail yards and goods movement corridors (trucks) are large sources of diesel PM.



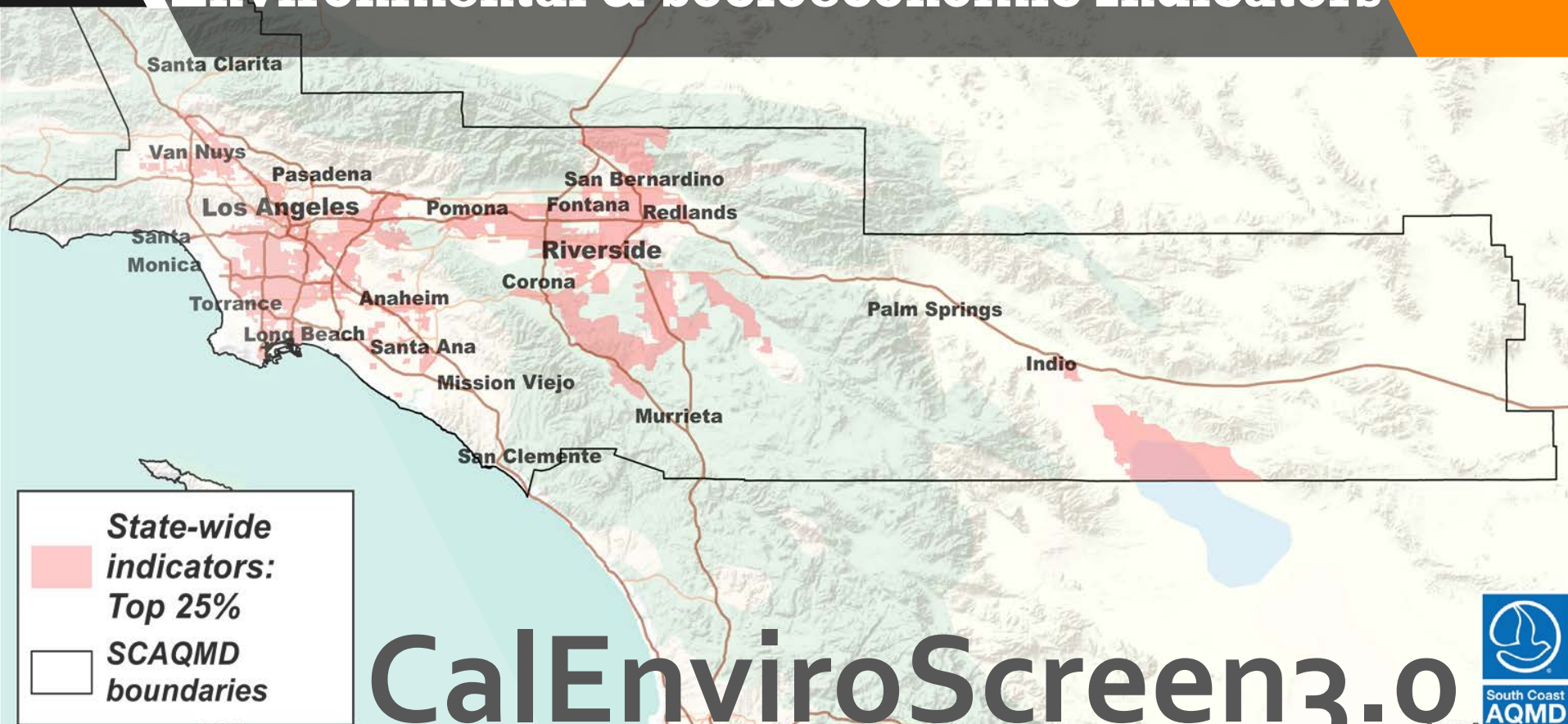
### Cancer Risk Per Million



# MATES IV

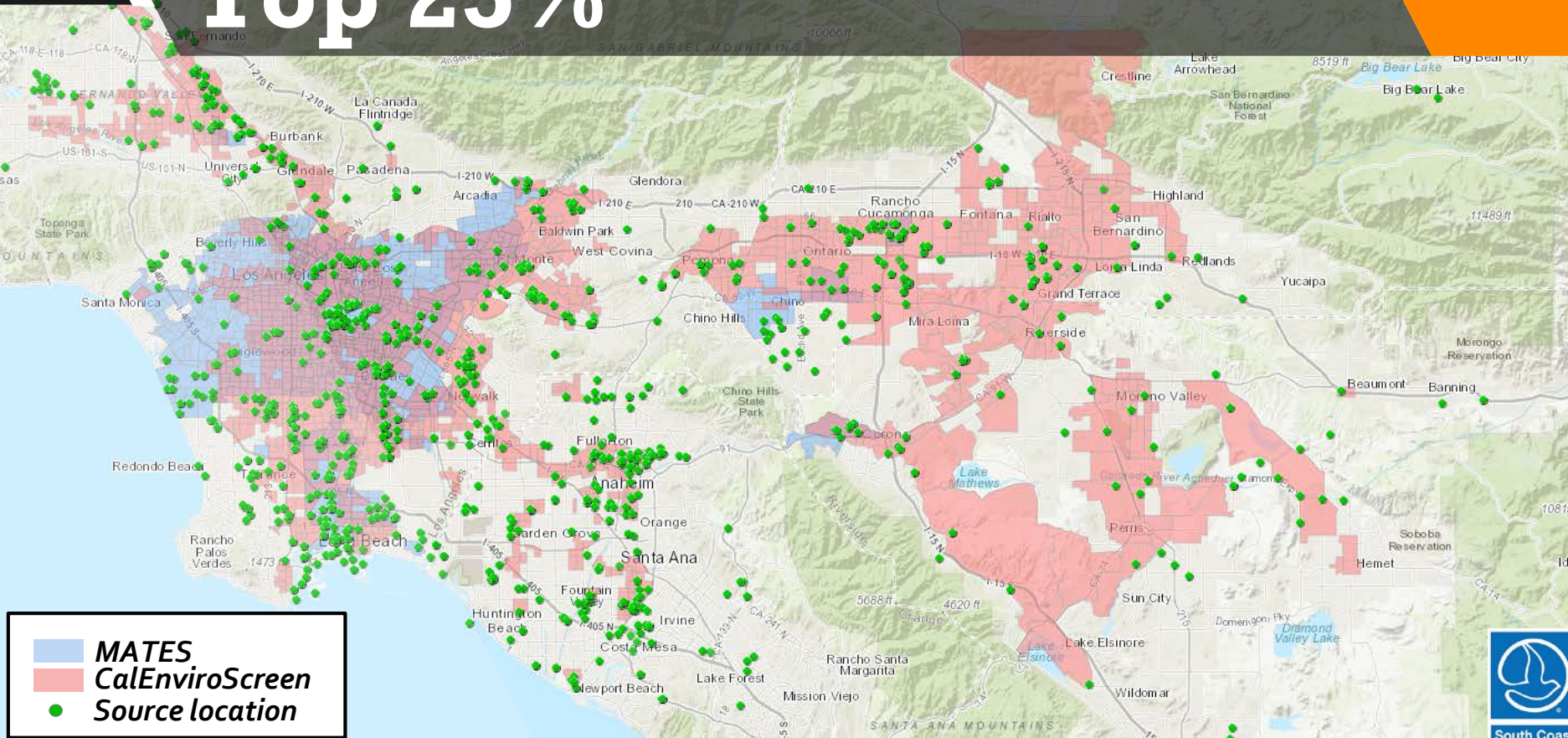


# Environmental & Socioeconomic Indicators



# CalEnviroScreen3.0

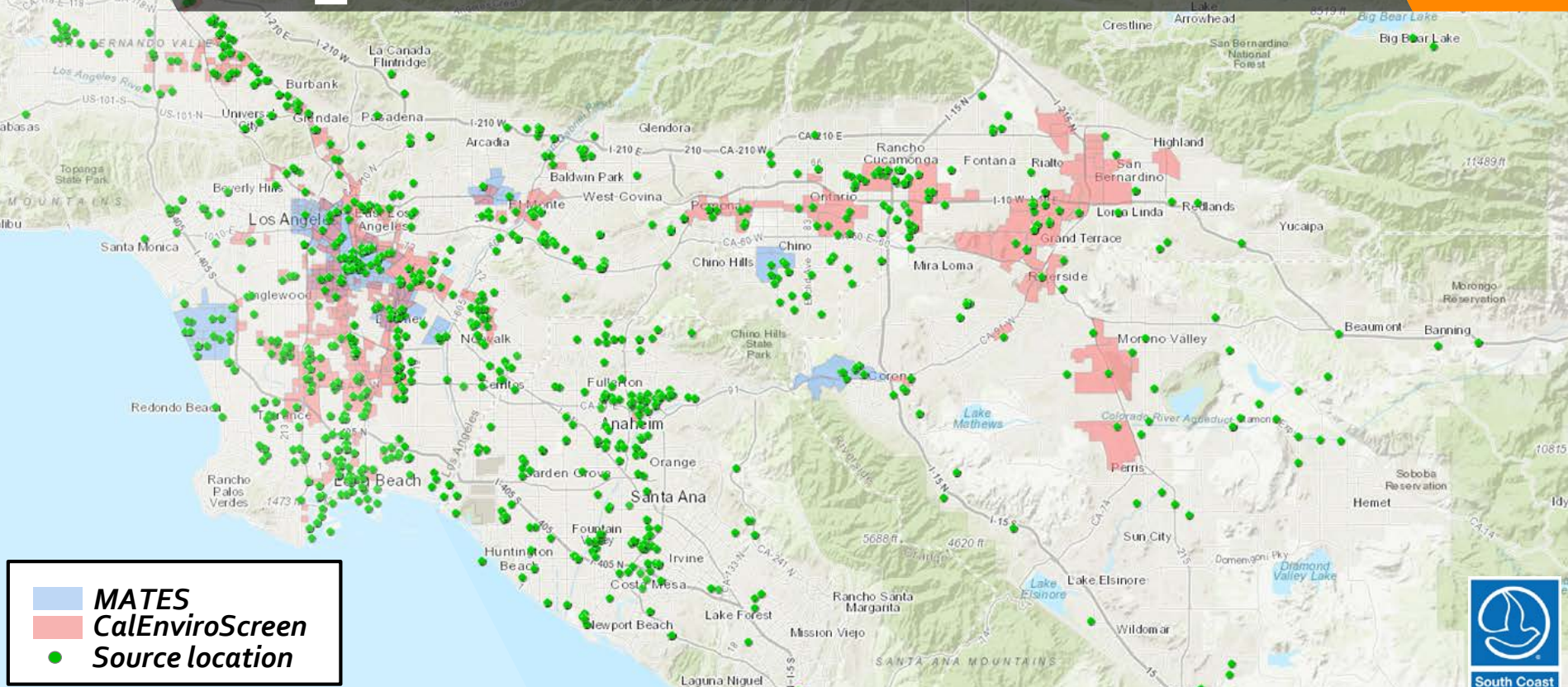
# Top 25%



**MATES**  
**CalEnviroScreen**  
**Source location**



# Top 5%



# Summary

- ▶ Air pollution is linked to many health effects
  - ▷ Different pollutants cause different health outcomes depending on their **concentration** and the **exposure time**
    - ▷ Ozone: Respiratory system
    - ▷ PM: Cardiovascular and respiratory effects
- ▶ **Improved air quality** in Southern California is linked to improved children's respiratory health
- ▶ You can personally **take action** in protecting your health and those that you love.
- ▶ SCAQMD continues to monitor and reduce criteria pollutants and toxics in the South Coast Basin

## ► Stay informed

- ▷ Check daily air pollution forecasts in your area.
- ▷ Sign up for air alerts
- ▷ [www.airnow.gov](http://www.airnow.gov) and [www.aqmd.gov](http://www.aqmd.gov) & SCAQMD's app
- ▷ Follow us on Twitter, Facebook and Instagram  
**@SouthCoastAQMD**

### More information

#### Criteria pollutants

- **EPA's (Environmental Protection Agency)**
  - <https://www.epa.gov>
- **California Office of Health Hazard Assessment (OEHHA):**
  - <https://oehha.ca.gov>

#### Toxics

- **Agency for toxic substances & disease registry's ToxFAQs:**
  - <https://www.atsdr.cdc.gov>



[www.aqmd.gov/ab617](http://www.aqmd.gov/ab617)



**@SouthCoastAQMD**



**Pedro Piqueras, Ph.D.**

**ppiqueras@aqmd.gov**



**Stay  
Connected**

<http://www.aqmd.gov/nav/about/initiatives/environmental-justice/ab617-134>