



South Coast Air Quality Management District

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

ENVIRONMENTAL JUSTICE ADVISORY GROUP

Advisory Group Members

Senator Vanessa Delgado (Ret.), Chair (Board Member)
Supervisor Janice Rutherford, Vice Chair (Board Member)
Veronica Padilla-Campos (Board Member)

Elizabeth Alcantar
Rhetta Alexander
Manuel Arredondo
Angelica Balderas
Dr. Lawrence Beeson
Suzanne Bilodeau
Paul Choe
Kerry Doi
Dr. Afif El-Hasan

Mary Figueroa
Angela Garcia
Kareem Gongora
Ana Gonzalez
Dr. Monique Hernandez
Dr. Jill Johnston
Humberto Lugo
David McNeill
Donald Smith
Rafael Yanez

Friday, October 28, 2022 ♦ 12:00 p.m.

Pursuant to Assembly Bill 361, the South Coast Air Quality Management District Legislative Committee meeting will only be conducted via videoconferencing and by telephone. Please follow the instructions below to join the meeting remotely.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION AT BOTTOM OF AGENDA

Join Zoom Webinar Meeting - from PC or Laptop
<https://scaqmd.zoom.us/j/93444598973>

Zoom Webinar ID: 934 4459 8973 (applies to all)

Teleconference Dial In
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Audience will be able to provide public comment through telephone or Zoom connection during public comment periods.

PUBLIC COMMENT WILL STILL BE TAKEN

AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't Code Section 54954.3(a)). If you wish to speak, raise your hand on Zoom or press Star 9 if participating by telephone. All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes total for all items on the agenda.

CALL TO ORDER

- Roll Call
- Opening Remarks

DISCUSSION/ACTION ITEMS (Item 1 through 4):

1. **Approval of August 26, 2022, Meeting Minutes**
(Motion Required)
[Attachment 1]
Senator Vanessa Delgado (Ret.)
Chair
2. **Review of Follow-Up/Action Items**
(No Motion Required)
Staff will review the follow-up/action items identified in the August 26, 2022, meeting.
Derrick J. Alatorre
Deputy Executive Officer,
Legislative, Public Affairs & Media
3. **2022 Goals and Objectives**
(Motion Required)
[Attachment 2]
Advisory Group Members will review and discuss 2022 Goals and Objectives.
Alicia Lizarraga
Senior Public Affairs Manager,
Legislative, Public Affairs & Media

DISCUSSION ITEMS (Items 4 through 5):

4. **Update on Draft Socioeconomic Report for the Revised Draft 2022 Air Quality Management Plan**
(No Motion Required)
[Attachment 3]
Staff will present on the Draft Socioeconomic Report for the Revised Draft 2022 Air Quality Management Plan.
Elaine Shen, PhD
Planning and Rules Manager,
Planning, Rule Development & Implementation
5. **Update on Air Monitoring**
(No Motion Required)
[Attachment 4]
Staff will present an update on the different types of air monitoring used by South Coast AQMD.
Andrea Polidori, PhD
Assistant Deputy Executive Officer,
Monitoring and Analysis Division

OTHER MATTERS:

6. Member Updates/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. (Gov't Code Section 54954.2)

7. Public Comment

Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3. At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the body's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

8. Next Meeting Dates –

January 27, 2023	April 28, 2023
August 25, 2023	October 27, 2023

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 body after the agenda is posted, are available by contacting Monika Kim at (909) 396-2342, or send the request to mkim@aqmd.gov.

Americans with Disabilities Act and Language Accessibility

Disability and language-related accommodations can be requested to allow participation in the Environmental Justice Advisory Group meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to South Coast AQMD. 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.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION

Instructions for Participating in a Virtual Meeting as an Attendee

As an attendee, you will have the opportunity to virtually raise your hand and provide public comment.

Before joining the call, please silence your other communication devices such as your cell or desk phone. This will prevent any feedback or interruptions during the meeting.

Please note: During the meeting, all participants will be placed on mute by the host. You will not be able to mute or unmute your lines manually.

After each agenda item, the Chairman will announce public comment.

A countdown timer will be displayed on the screen for each public comment.

If interpretation is needed, more time will be allotted.

Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.

Directions for Video ZOOM on a DESKTOP/LAPTOP:

- If you would like to make a public comment, please click on the “Raise Hand” button on the bottom of the screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for Video Zoom on a SMARTPHONE:

- If you would like to make a public comment, please click on the “Raise Hand” button on the bottom of your screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for TELEPHONE line only:

- If you would like to make public comment, please dial *9 on your keypad to signal that you would like to comment.

Agenda Item #2
Approval of August 28, 2022 Meeting Minutes
[Attachment 1]



South Coast Air Quality Management District



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ENVIRONMENTAL JUSTICE ADVISORY GROUP FRIDAY, AUGUST 26, 2022 MEETING MINUTES

MEMBERS PRESENT:

Senator Vanessa Delgado (Ret.), Chair (Governing Board Member)
Sup. Janice Rutherford, (Governing Board Member)
Manuel Arredondo
Dr. Lawrence Beeson
Suzanne Bilodeau
Mary Figueroa
Angela Garcia
Kareem Gongora
Ana Gonzalez
David McNeill
Donald Smith
Rafael Yanez

MEMBERS ABSENT:

Veronica Padilla-Campos, (Governing Board Member)
Elizabeth Alcantar
Rhetta Alexander
Angelica Balderas
Paul Choe
Kerry Doi
Dr. Afif El-Hasan
Dr. Monique Hernandez
Dr. Jill Johnston
Humberto Lugo
Daniel Morales

SOUTH COAST AQMD STAFF:

Derrick Alatorre, Deputy Executive Officer
Lisa Tanaka O'Malley, Assistant Deputy Executive Officer
Nicholas Sanchez, Assistant Chief Deputy Counsel
Alicia Lizarraga, Senior Public Affairs Manager
Sang-Mi Lee, Planning and Rules Manager
Eugene Kang, Planning and Rules Manager
Brisa Lopez, Admin Assistant I

Agenda Item #1: Call To Order

Senator Vanessa Delgado called the meeting to order at 12:02 p.m., and roll call was taken.

For additional details of the Environmental Justice Advisory Group, please refer to the [Webcast](#).

Agenda Item #2: Approval of April 29, 2022 Meeting Minutes

Chair Delgado called for the approval of the April 29, 2022, meeting minutes.

Moved by Kareem Gongora; seconded by Ana Gonzalez.

Ayes: Delgado, Rutherford, Arredondo, Beeson, Bilodeau, Figueroa, Garcia, Gongora, Gonzalez, McNeill, Smith, Yanez

Noes: none

Abstain: none

Absent: Padilla-Campos, Alcantar, Alexander, Balderas, Choe, Doi, El-Hasan, Hernandez, Johnston, Lugo, Morales

Agenda Item #3: Review of Follow-Up/Action Items

Derrick Alatorre, Deputy Executive Officer, Legislative, Public Affairs & Media, reviewed the action items from the April 29, 2022, meeting:

- Staff was requested to provide an update on how many warehouses have filed reports in response to the Warehouse Actions and Investments to Reduce Emissions (WAIRE) program.

After the data is presented to Stationary Source Committee and to the Governing Board, a presentation will be scheduled for EJAG.

- Staff was requested to report on what type of air monitoring, including black carbon, is conducted near warehouses.

The AB 617 communities of East Los Angeles, Boyle Heights, West Commerce (ELABHWC) and San Bernardino, Muscoy (SBM) both selected “Warehousing” as an air quality priority. For these communities, air monitoring has been conducted in residential areas near warehouses using a mobile platform device capable of measuring a wide range of particulate and gaseous pollutants (including black carbon, nitrogen dioxide, and particle number concentrations to trace diesel exhaust). Staff executed a contract with ACLIMA with intensive mobile monitoring occurring 24/7 between July 1st – September 30th.

- Research whether an EJAG meeting can be held at CARB headquarters in Riverside when meetings are held in person.

CARB does not have a current policy for outside groups to use their facilities. CARB will update South Coast AQMD once a policy is in place.

- Follow-up with Donald Smith, EJAG Member, for details regarding the requested discussion on hazardous and toxic substances in school and residential areas.

Staff has reached out to Mr. Smith and a response is pending.

- Agendize an update on indirect source rules related to ports and railyards.

Pending scheduling for a future meeting.

Agenda Item #4: Draft 2022 Air Quality Management Plan Overview

Sang-Mi Lee, Planning and Rules Manager/Planning, Rules Development, and Implementation, presented an update on the Draft 2022 Air Quality Management Plan (AQMP).

Kareem Gongora inquired how the Draft 2022 AQMP informs land-use agencies and expressed concerns regarding data sources and thresholds for CEQA analyses. Ms. Lee explained how emissions inventory information is gathered and referenced the section in the AQMP where this process is explained. Ian MacMillan, Assistant Deputy Executive Officer/ Planning, Rules Development and Implementation, explained that CEQA standards are set by local land-use agencies. South Coast AQMD can recommend thresholds, but ultimately it is up to the local agencies to set their own standards.

Action Item: Chair Delgado requested staff for a presentation on South Coast AQMD CEQA guidance.

Rafael Yanez cited increased usage of our ports, ships, and trucks as contributing to South Coast AQMD's nonattainment issues. Chair Delgado concurred and responded that South Coast AQMD is developing an Indirect Source Rule for Ports and Intermodal Facilities.

Angela Garcia asked what can be done to reduce emissions from off-road mobile sources, particularly ships and aircraft. Dr. Lee responded that there are multiple strategies in the Draft 2022 AQMP and CARB also has control measures for off-road equipment.

Ms. Garcia asked about the ozone trends in the South Coast Air Basin since 2016. Dr. Lee responded that there are multiple factors contributing to increased ozone levels over the past 5-6 years, such as temperature, humidity, and wind speed.

Ana Gonzales asked how South Coast AQMD can increase air monitoring near warehouses, including measurement of black carbon. Mr. MacMillan provided

information on South Coast AQMD's air monitoring network and annual plan which is online under Clean Air Plans.

David McNeill inquired if more can be done to require facilities to reduce pollution in environmental justice communities. Mr. MacMillan responded that there are programs such as AB 617 and the AQMP focuses on several EJ strategies.

Manuel Arredondo commented on the need for federal action to control air pollution from mobile sources.

There was no public comment.

For further details, please refer to the webcast at [00:08:00](#).

Agenda Item #5: Rule 403.2 – Fugitive Dust Emissions

Eugene Kang, Planning and Rules Manager, Planning, Rules Development, and Implementation, presented on Rule 403.2 – Fugitive Dust Emissions.

Ms. Garcia asked if there is an online database for large projects requiring dust mitigation and who to contact when there is no signage at a site. Mr. Kang responded that 1-800-CUT-SMOG can be called to report complaints. He added that the rule does not take effect until after January 3rd, 2023, and different ways to provide information to the public are being explored including posting on the existing Rule 403 webpage.

Mr. Yanez asked if there are fines associated with the rule. Nicholas Sanchez, Assistant Chief Deputy Counsel, explained that there is a tiered structure for penalties under the California Health and Safety Code which applies to South Coast AQMD rules.

Mr. Yanez asked how many Notices of Violation (NOV) it takes for staff to start the litigation process. Mr. Sanchez replied that one NOV subjects a facility to a fine.

Mr. McNeil asked how the notifications and signage are crafted. Mr. Kang responded there is a two-sign minimum per site, and provided details on notifications.

Ms. Garcia asked if there is another rule applicable to large properties and vacant land. Mr. Kang responded that Rule 403 has existing requirements and provisions regarding dust from large operations. He also generally discussed Rule 402 which addresses public nuisances.

Moses Huerta asked in public comment if the rule relates to Proposition 65 for cement processing facilities.

Mr. Sanchez responded that there are different requirements for Proposition 65. Mr. Kang added that Rule 403.2 strictly applicable to large roadway projects but Rules 1156 and 402 relate to Mr. Huerta's question.

Mr. Gongora asked if there was coordination on water quality issues. Mr. Kang responded that other agencies are responsible for storm water.

For further details, please refer to the webcast at [00:57:39](#).

Agenda Item #6- Member Updates/Other Business

Mary Figueroa asked how EJAG members can provide updates to the committee regarding Riverside warehouse issues. Ms. Lizarraga responded that updates can be provided in EJAG meetings and/or emailed to her to share with staff and other EJAG members.

Ms. Lizarraga announced the Environmental Justice Conference on September 14, 2022.

Mr. Gongora provided information on California Clean Air Day on October 5, 2022.

Agenda Item #7- Public Comment

Larry Beeson announced the date of the next EJAG meeting on October 28.

Agenda Item #8: Next Meeting Date

The next regular EJAG meeting is on Friday, October 28, at 12:00 p.m.

Adjournment

Chair Delgado adjourned the meeting, in memory of Barbara Chavez, at 1:31p.m.

Agenda Item #3
2022 Goals and Objectives
[Attachment 2]



Environmental Justice Advisory Group

2023 Goals & Objectives

The items below are proposed agenda topics to be addressed during the quarterly 2023 meetings for the Environmental Justice Advisory Group (EJAG). The Administrative Committee and Governing Board will receive the approved minutes, reflecting the discussions. Not all items are expected to be covered due to time constraints. EJAG members will provide insight on how to best communicate this information with community members and stakeholders.

The following are proposed agenda topics to be addressed during 2023:

1. EJCP Program Updates.
2. Advisory Council Member Presentations on Environmental Justice Efforts.
3. Legislative Updates Related to Air Quality and/or Environmental Justice.
4. Implementation of Assembly Bill 617, Related Community Emission Reduction Plans, and Community Air Monitoring Plans.
5. South Coast AQMD's Mobile Application Updated Features.
6. Air Quality Management Plan.
7. Incentive Programs Targeted for Environmental Justice Communities.
8. Emerging Technologies that Help Clean the Air.
9. Community Initiatives Related to Air Quality:
 - Why Healthy Air Matters (WHAM) Program - High School Air Quality Educational Program.
 - Clean Air Program for Elementary Students (CAPES) – Elementary School Air Quality Educational Program.
10. Health Studies Related to Air Quality.
11. Annual Environmental Justice Conference Overview.

Agenda Item #4



Update on Draft Socioeconomic Report for the Revised Draft 2022 AQMP

[Attachment 3]

Draft Socioeconomic Report for the Revised Draft 2022 AQMP

Environmental Justice Advisory Group


October 28, 2022



1

Background and Report Outline

- Socioeconomic impact assessment for AQMP
 - To better inform the public and policymakers
 - Conducted since 1991
- Draft Socioeconomic Report:
 - Executive summary
 - Introduction
 - Costs of control measures
 - Clean air benefits
 - Job impacts
 - Sub-county distribution of costs, benefits, and job impacts
 - Environmental justice (EJ) analysis
 - Technical appendices

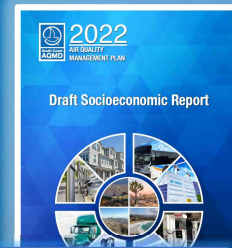


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Current Status

Draft Socioeconomic Report released October 1

- Analyzes benefits, costs, economic, and environmental justice impacts of the Revised Draft 2022 AQMP
- Public comment period through November 2
- Available at: <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/socioeconomic-analysis>



On October 1, 2022, South Coast AQMD staff released the Draft Socioeconomic Report for the Revised Draft 2022 AQMP.

- Draft Socioeconomic Report for the Revised Draft 2022 AQMP - October 1, 2022 (PDF, 6.2Mb) **NEW**
- Draft Socioeconomic Report Appendices - October 1, 2022 (PDF, 4.6Mb) **NEW**

Public comments on the Draft Socioeconomic Report should be submitted by Wednesday, November 2, 2022, through the Draft Socioeconomic Comment Submission Form or via an email to SocioEcon@aqmd.gov.

3

3

Public Process

Continuous stakeholder involvement via public process:

- Scientific, Technical & Modeling Peer Review (STM)PR Advisory Group
 - 4 meetings covered socioeconomic topics between November 2021 and October 2022
- Regional public workshops
 - 3 scoping sessions in May
- Regional public hearings
 - 5 meetings in October
- Presentation to the South Coast AQMD Governing Board
 - October 7

4

4

Summary of Draft Incremental Costs*

Measures	Annual Amortized Average 2023-2037** (Billions of 2021 dollars)				Percent of Total Annualized Cost
	Remaining Incremental Cost		Incentives	Total Incremental Cost	
Stationary and Area Sources	\$1.12	+	\$0.12	= \$1.24	43.5%
Mobile Sources	\$1.44	+	\$0.17	= \$1.61	56.5%
All Sources	\$2.56	+	\$0.29	= \$2.85	100%

* Costs are incremental to the business-as-usual scenario without the Revised Draft 2022 AQMP. Incremental costs were quantified for control measures with quantified emission reductions only.

** Costs associated with deployed controls may continue to be incurred beyond 2037.

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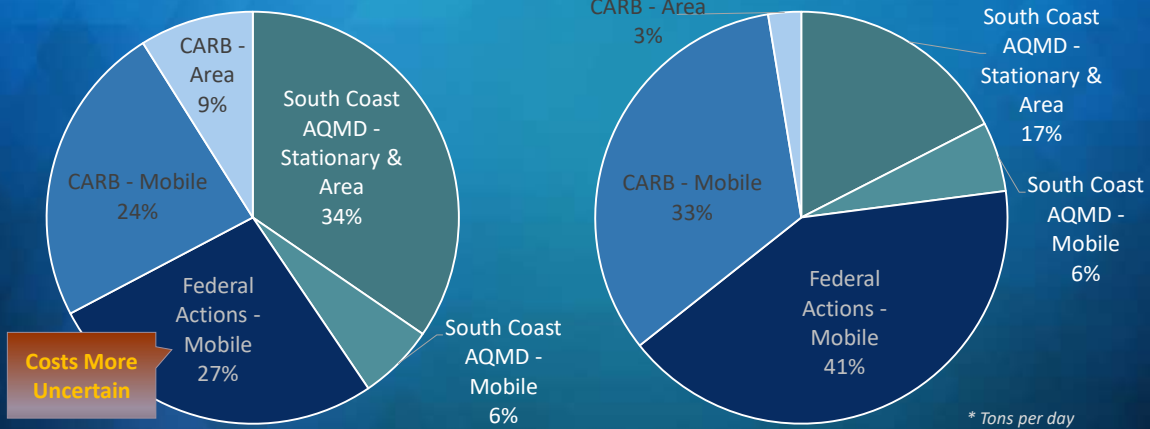
Costs and NOx Reductions Breakdown

\$2.85 B in Annual Costs

(annual amortized average 2023-37)

124 TPD* of NOx Reductions

(2037)



6

6

Summary of Draft Health Benefits

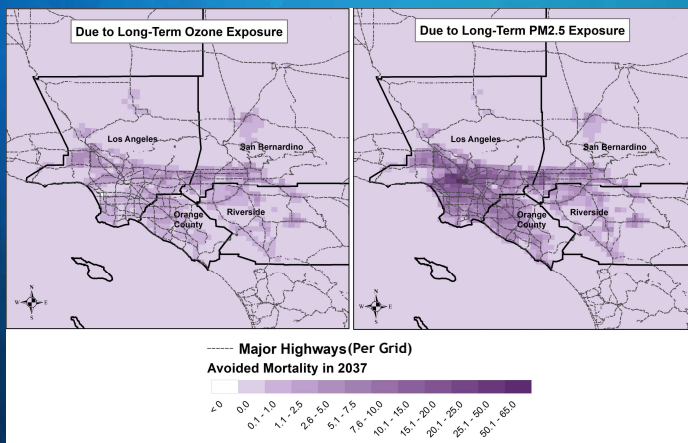
	Monetized Public Health Benefits (Billions of \$2021)			
	2032	2037	Annual Average (2025-2037)*	Present Value (2025-2037)**
Mortality-related benefits	\$19.3	\$39.1	\$18.7	\$129.6
Long-Term Ozone Exposure	\$4.0	\$9.6	\$4.2	\$29.4
Long-Term PM2.5 Exposure	\$15.3	\$29.5	\$14.4	\$100.2
Morbidity-related benefits	\$0.7	\$1.4	\$0.7	\$4.7
Grand Total	\$20.0	\$40.5	\$19.4	\$134.3

* Several proposed clean air strategies in the Revised Draft 2022 AQMP will be implemented beginning in 2023. However, to be conservative and in consideration of the transition from VOC-limited to NOx-limited ozone formation regime for several areas in the South Coast Air Basin, it is assumed that there would be minimum clean air benefits during the first two years of 2022 AQMP implementation, and health benefits of implementing the Revised Draft 2022 AQMP would begin accruing only in 2025

** Discounted to year 2022 using a 4% discount rate.

7

Avoided Premature Deaths



Avoided Premature Deaths		
	2032	2037
Mortality, Respiratory / Mortality, All Cause	1,619	3,031
Ozone	339	744
Los Angeles	124	309
Orange	48	85
Riverside	84	164
San Bernardino	83	186
PM	1,280	2,287
Los Angeles	821	1,471
Orange	184	300
Riverside	128	236
San Bernardino	146	279

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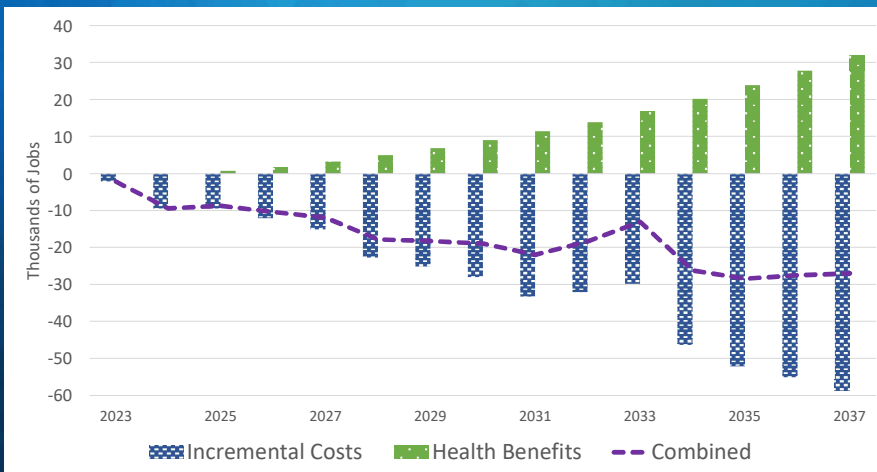
Avoided Premature Deaths: EJ vs. Non-EJ

EJ Designation	EJ Communities	Non-EJ Communities	Difference
Definition 1: Poverty and Air Quality Indicators	262 to 274	211 to 228	51 to 45
Definition 2: Multiple Socioeconomic and Air Quality Indicators	262 to 268	209 to 229	53 to 39
Definition 3: SB 535 Disadvantaged Communities (DAC)	260	232	29

Decrease per million residents Age 30+

9

Summary of Projected Job Impacts



Job impacts of benefits and costs combined

- **0.27%** annualized job growth v.s. baseline growth of 0.44% between 2023-37
- An annual average of **17,000 jobs** foregone in an economy with over 10 million jobs

10

10

Next Steps for AQMP Socioeconomic Report



11

11

Staff Contacts

Socioeconomic Analysis	AQMP Questions and Inquiries
<p>Brian Vlasich Air Quality Specialist bvlasich@aqmd.gov 909.396.2176</p>	<p>Sang-Mi Lee, Ph.D. Planning & Rules Manager slee@aqmd.gov 909.396.3169</p>
<p>Elaine Shen, Ph.D. Planning & Rules Manager eshen@aqmd.gov 909.396.2715</p>	<p>Ian MacMillan Assistant Deputy Executive Officer Planning, Rule Development & Implementation imacmillan@aqmd.gov 909.396.3244</p>
<p>Comments or questions on Draft Socioeconomic Report? Visit us at: www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/socioeconomic-analysis or email us at: SocioEcon@aqmd.gov</p>	

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Agenda Item #5
Update on Air Monitoring
[Attachment 4]

New Tools and Approaches for Localized Community Air Monitoring as Implemented in AB 617



Andrea Polidori, Ph.D.
 Assistant Deputy Executive Officer
 Monitoring and Analysis Division

EJAG Meeting | October 2022

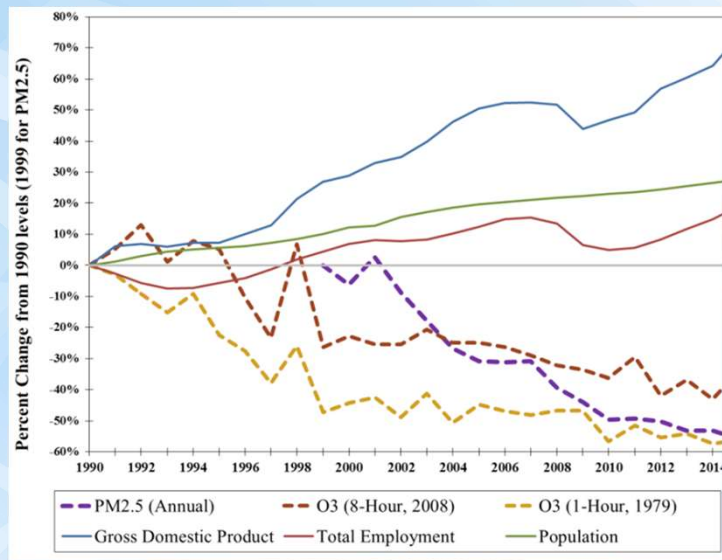
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Regional Improvement in Air Quality

Over the past 30 years in South Coast Basin, California:

- Substantial increase in population, vehicular traffic, GDP, and employment
- Significant improvement in regional air quality



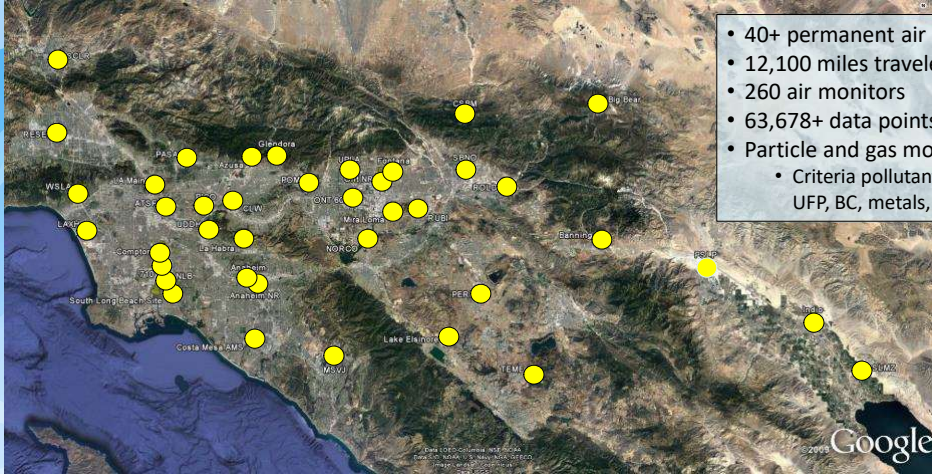
Source: South Coast AQMD AQMP

2



2

Ambient Air Monitoring Network



- 40+ permanent air monitoring sites
- 12,100 miles traveled per week
- 260 air monitors
- 63,678+ data points per week
- Particle and gas monitoring
 - Criteria pollutants, VOCs, carbonyls, UFP, BC, metals, other air toxics

3

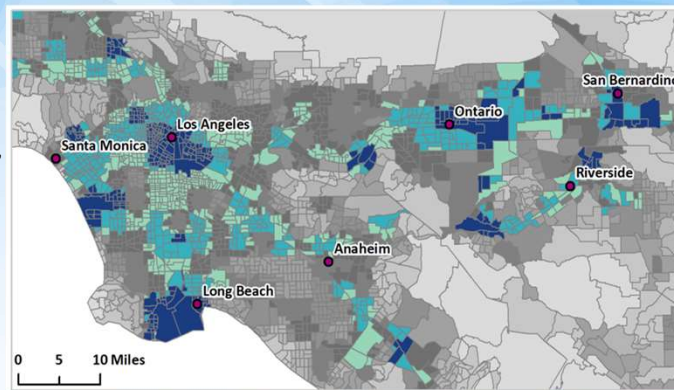


Motivation for Community-Level Efforts

Historical focus on regional air quality

Significant improvement, but disproportionate burdens remain

Need for community-level focus



Diesel PM

Diesel PM emissions from on-road and non-road sources for a 2012 summer day in July (kg/day)

0 - 3	17 - 19
4 - 7	20 - 23
8 - 11	24 - 27 (Top 30%)
12 - 13	28 - 36 (Top 20%)
14 - 16	> 36 (Top 10%)

Source: CalEnviroScreen 3.0



4

California State Assembly Bill (AB 617)

- ▶ Statewide program enacted in 2017 to **reduce air pollution** in communities that are disproportionately impacted by air pollution
- ▶ Community partnerships and leadership are central to the program



5

AB 617 Communities for South Coast AQMD

September 2018, CARB designated three Year 1 Communities:

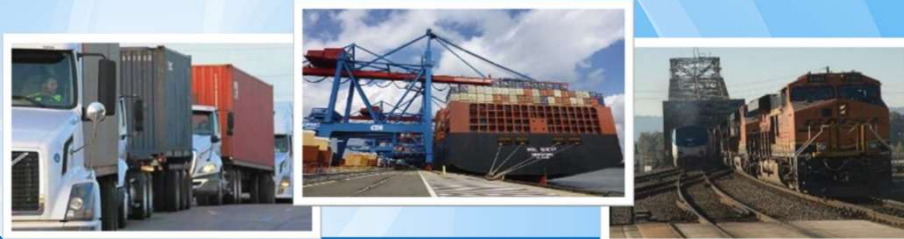
- Wilmington, Carson, West Long Beach
- San Bernardino, Muscoy
- East Los Angeles, Boyle Heights, West Commerce

December 2019, CARB designated two Year 2 Communities:

- Southeast Los Angeles
- Eastern Coachella Valley

February 2021, CARB designated one Year 3 Community:

- South Los Angeles



6

Community Steering Committees (CSCs)

- CSCs were formed for each of the communities
- Discussed the community boundary
- Identified and prioritized air pollution concerns
- Guided strategies and provide input for development of plans (CAMP/ CERP)

Members include:

- Active residents and community leaders
- Local business owners or workers, labor unions
- Community organizations
- Local agencies
- Schools
- Hospitals
- Elected officials

Land use agencies represented:



7



7

Air Quality Concerns and Priorities

Diesel Exhaust



Air Toxics



Odorous Compounds



Criteria Pollutants



...and more!

8



8

AB 617 Community Air Monitoring Objectives

01

Better understand emission sources, pollutants of interest and their levels and establish baseline

02

Look at levels of pollution at the community level for providing information on further action

03

Support development and implementation of emissions reduction strategies

04

Provide air pollution data to the general public

9



9

How to Select the Right Tools for AB 617 Community Air Monitoring

Purpose of Air Monitoring

Air Pollutants of Interest

Available Air Monitoring Tools

Air Monitoring Capabilities & Limitations

10



10

AB 617 COMMUNITY AIR MONITORING TOOLS

Mobile Monitoring Platforms



Diesel PM Mobile Platform
PM, PN, BC, NOx

Truck Traffic
Railyards



Multi-Metal Mobile Platform
Particulate Metals

Metal-Processing Facilities
Auto Body Shops



Optical Remote Sensing Platform
BTEX, Total Alkanes, SO₂, HCHO, CH₄

Refineries
Oil Wells



PTR-MS Mobile Platform
VOCs

Rendering & Waste Facilities
Auto Body Shops



11

AB 617 COMMUNITY AIR MONITORING TOOLS

Fixed Monitoring Options

Accepted Guidance Methods or Criteria



Low-Cost Sensors and Sensor Networks



Research Grade Tools



12

General Air Monitoring Approach

Mobile Monitoring

- Survey large areas
- Identify hotspots and unknown sources
- Support inspections and enforcement actions
- Inform emission reduction efforts



Fixed Monitoring

- Provide more information about possible sources
- Assess levels in community
- Support emission reduction strategies
- Track progress



Sensors

- Provide more information about how levels vary within the community
- Complement other monitoring strategies
- Engage the community in air pollution measurement



Comprehensive and Purposeful Air Monitoring

13



13

Community Air Monitoring Plans

AB 617 COMMUNITY AIR MONITORING PLAN (CAMP) FOR THE EASTERN COACHELLA VALLEY COMMUNITY



South Coast Air Quality Management District
November 2008
Version 1

Quality Assurance Project Plan (QAPP) for AB 617 Community Air Monitoring Program



South Coast Air Quality Management District
September 2010
Version 1

<http://www.aqmd.gov/nav/about/initiatives/environmental-justice/ab617-134/ab-617-community-air-monitoring>

14



14

AB 617 Community Air Monitoring Implementation

EXAMPLE OF ONGOING AIR MONITORING INVESTIGATIONS IN WILMINGTON, CARSON, WEST LONG BEACH

15



15

Oil Wells

Wilmington, Carson, West Long Beach Community

Over 500 Oil Wells

Area D

Area E

Area F

Example of Measurement Path

Active Well

16

16



Oil Wells

Wilmington, Carson, West Long Beach Community

- **Purpose of Air Monitoring**
 - Identify Leaks and High Emitting Oil Wells
 - Support Enforcement Actions
 - Assess Community Impact
- **Target Air Pollutants**
 - Methane, VOCs, Alkanes
- **Air Monitoring Solution**
 - Optical Remote Sensing Van
 - Optical Gas Imaging Camera



17

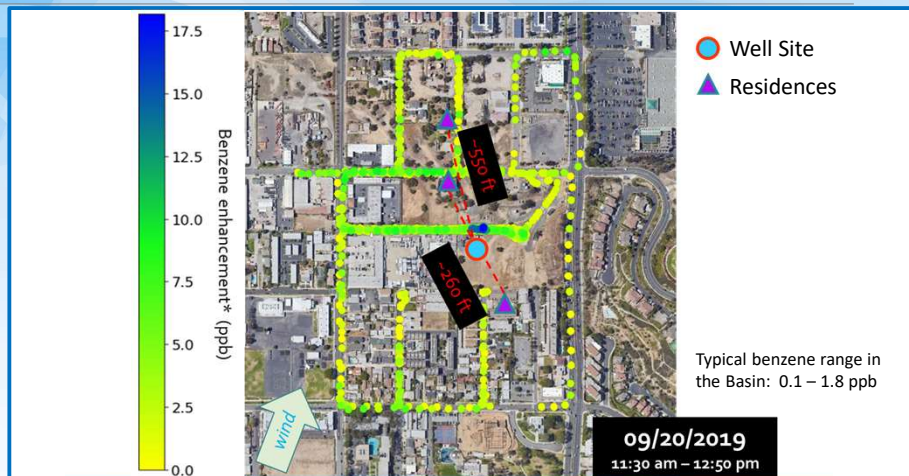


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Oil Wells

Wilmington, Carson, West Long Beach Community



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Oil Wells

Wilmington, Carson, West Long Beach Community



09/19/2019
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For Additional Information

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