

Meeting Roles and Expectations

CSC Purpose: To guide strategies for community air monitoring and emissions reduction plans for this AB 617 community, and track progress on community plans.

Expectations:

- Presenters will be concise
- Everyone should help us stay on time by staying on topic
- Aim to build consensus



Meeting Participant Roles*								
	SCAQMD	Note taker	Co-host	Committee members				
•	Organize meeting logistics Provide agenda and meeting materials Present key information Address committee concerns and answer questions	 Take notes Prepare a summary and post it online 	 Help facilitate discussions Help SCAQMD staff review materials Help SCAQMD staff with meeting logistics 	 Provide input on discussion items Provide prompt feedback and response (e.g. filling out surveys, replying to emails, etc) Engage with other committee members and members of the public Serve as a liaison to your networks within the community Provide suggestions on how to improve this process 				

* Based on feedback from the CSC members, we are working on getting a facilitator

Where we are now Where we are going



Identify Community Air Quality Concerns

- Committee Input
- Technical Data

Oct 2018-Jan 2019



Prioritize Sources of Emissions and Areas with High Exposure Concerns

- Target areas/pollutants for air monitoring
- Target sources/places for emissions or exposure reduction

Jan 2019-Mar 2019



Develop Strategies to Reduce Emissions and Exposures and Metrics for Tracking Progress

- Community Air Monitoring Plan
- Community Emissions Reduction Plan

Mar 2019-Oct 2019

Today's Meeting Objectives

- Provide summary of air quality concerns and complete discussion on community boundaries
- ➤ Provide information on air monitoring, and ideas for air monitoring through AB 617
- ➤ Prepare for next steps (prioritize air quality issues and develop strategies to address them)
- Follow up on committee logistical items



Air Quality Concerns and Community Boundaries



Recap: How were Year 1 AB 617 communities identified?

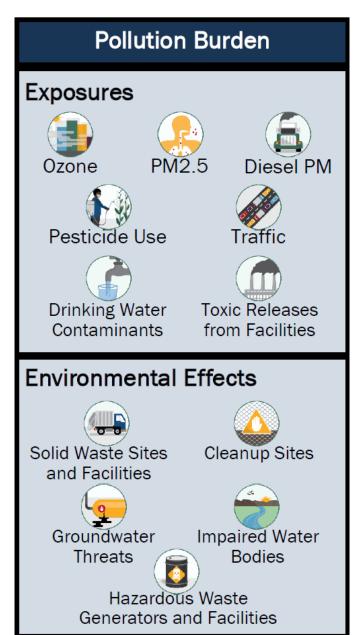
We first identified communities using a broadly inclusive approach.

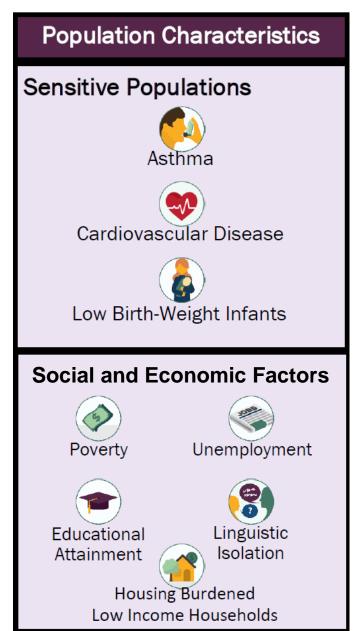
Preliminary list includes each of the following:

- (1) Top 25% of MATES IV air toxics cancer risk
- (2) Top 25% of CalEnviroScreen 3.0 score
- (3) Community nominations (148 nominations received through 5/17/2018)
- (4) Communities with the highest density of schools within 1,000 feet of industrial land use



CalEnviroScreen 3.0 (OEHHA)

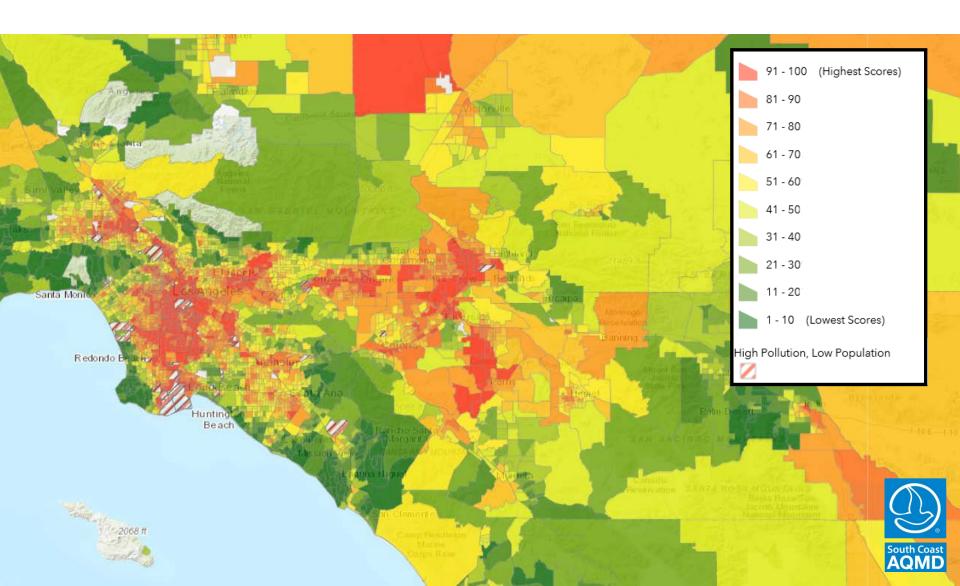




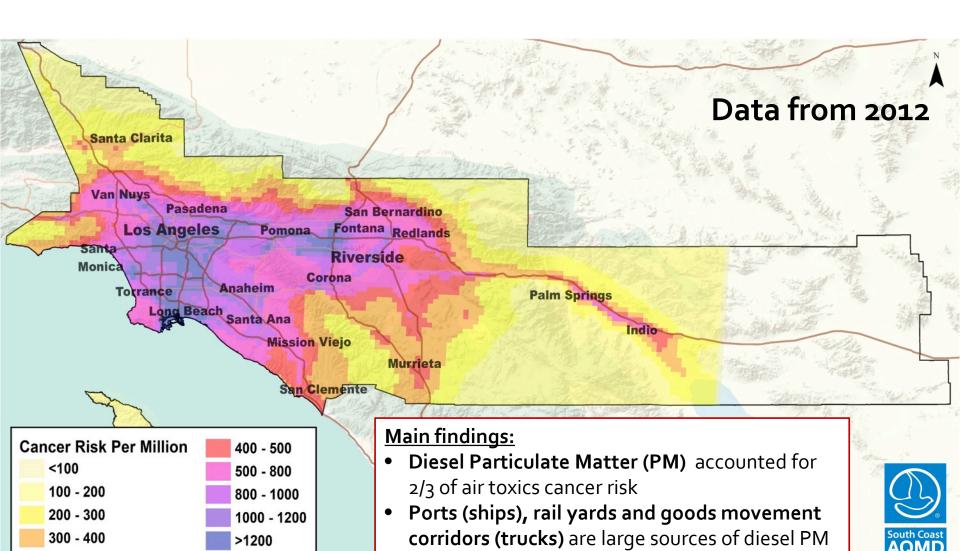
OEHHA: Office of Environmental Health Hazard Assessment (State agency)



CalEnviroScreen 3.0 (OEHHA)

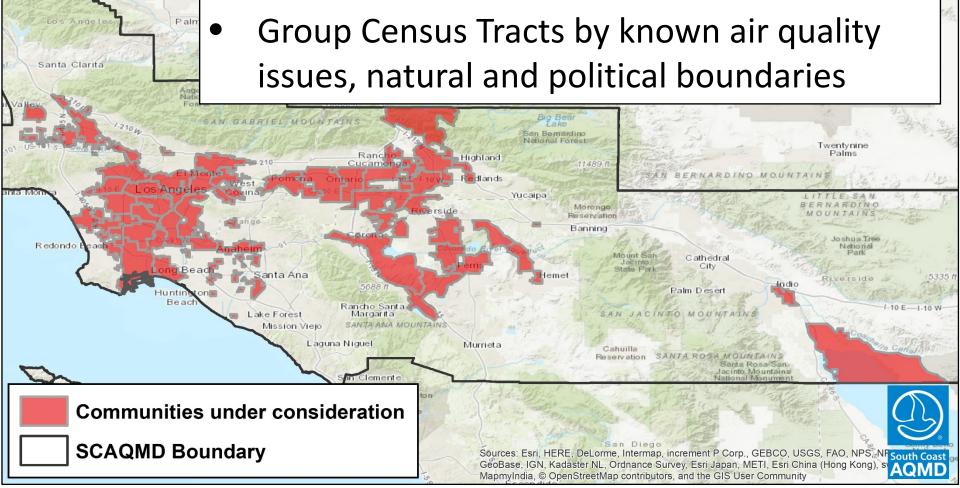


Multiple Air Toxics Exposure Study (MATES IV)

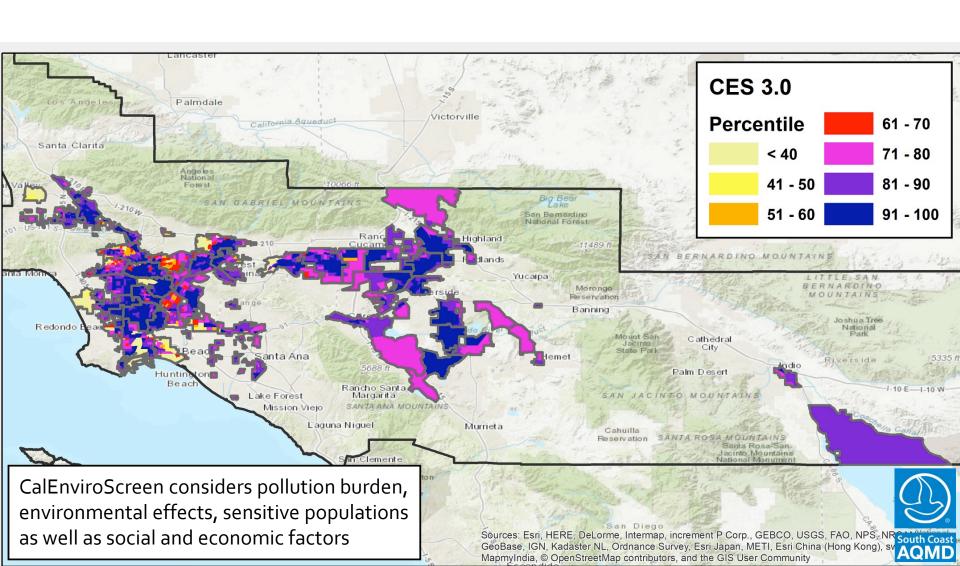


Map of communities under consideration for AB 617

- 55 communities identified in SCAQMD
- Census Tract boundaries



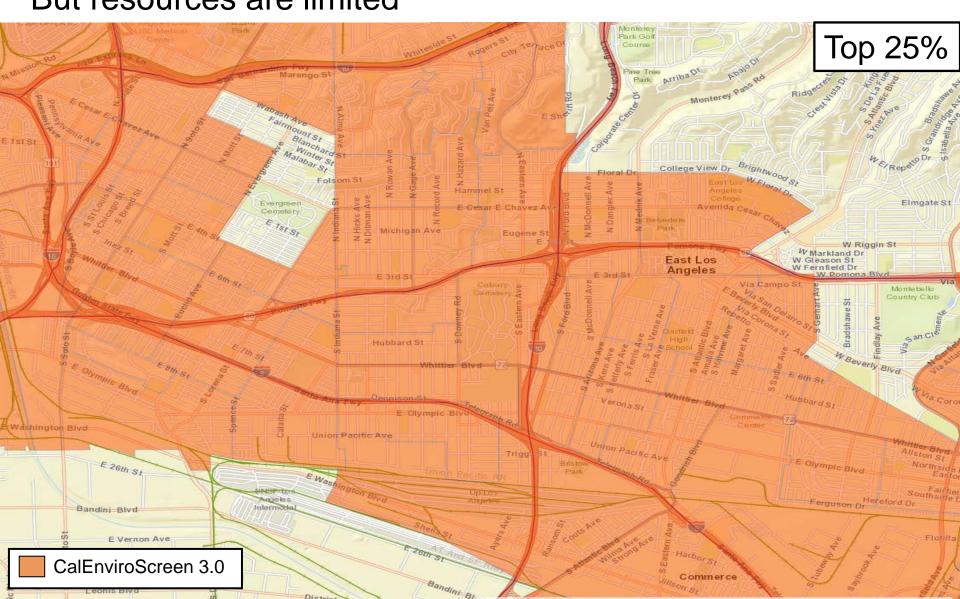
CalEnviroScreen 3.0 ranking in communities under consideration



Many disadvantaged areas



But resources are limited



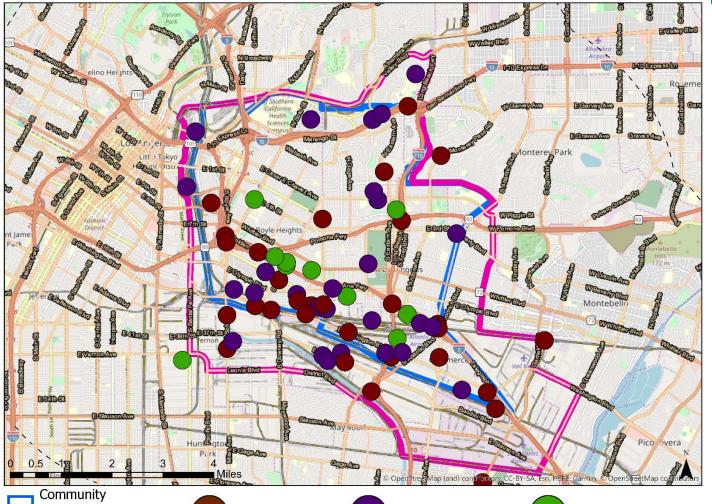
For more details...

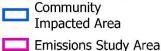
- SCAQMD recommendations to CARB for Year 1 communities and implementation schedule: http://www.aqmd.gov/docs/default-source/ab-617-ab-134/submittal-to-carb.pdf
- CARB staff report describing statewide strategy and Year 1 communities https://ww2.arb.ca.gov/sites/default/files/2018-09/2018_community_recommendations_staff_report_revised_sept_ember_11.pdf

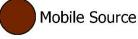
And now, let's discuss this community (East Los Angeles, Boyle Heights, West Commerce)...



Community-Identified Air Quality Concerns - Map













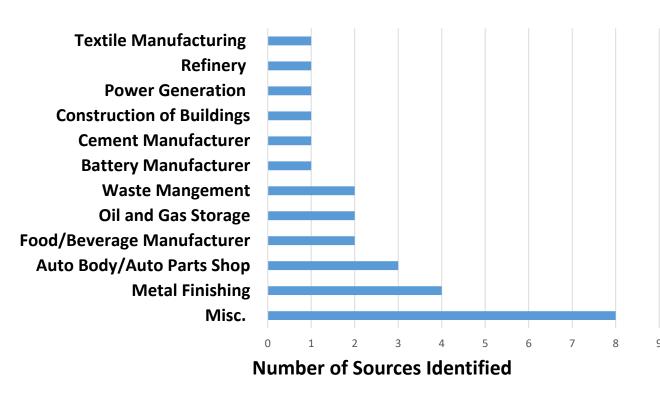
Community-Identified Air Quality Concerns Based on Air Quality Mapping Activity in Meeting #1

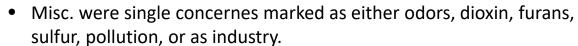


	Number		
Stationary Sources	28		
Mobile Sources	30		
Sensitive			
Receptors	11		
Total Unique			
Concerns	69		

Stationary Source Concerns

(28 unique sources)



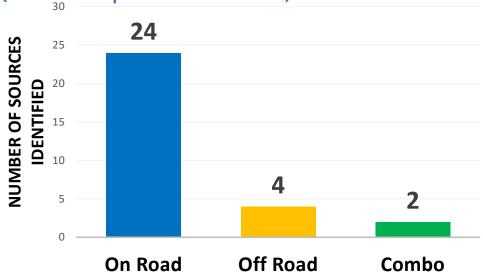


The cement manufacturer was identified twice in the mapping exercise



Mobile Source Concerns

(30 unique sources)





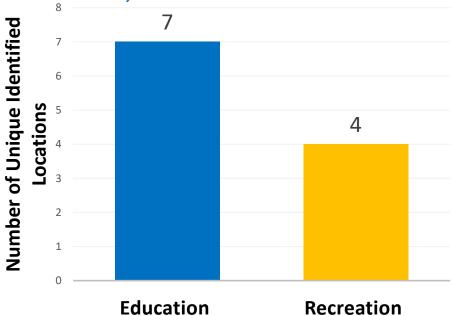


- On Road: Mainly trucks idling and truck traffic
 - 710 freeway
 - Freeway intersections
- Off Road
 - Railyards and rail traffic
- Combo
 - Transfer yard
 - Train and truck idling

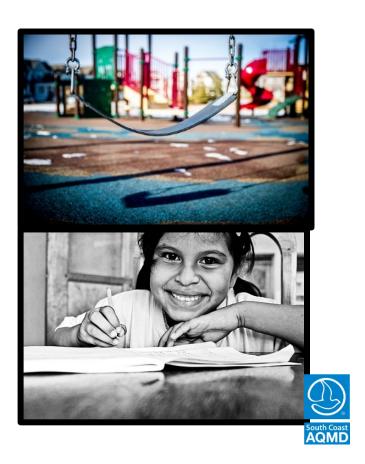


Sensitive Receptors (11 unique

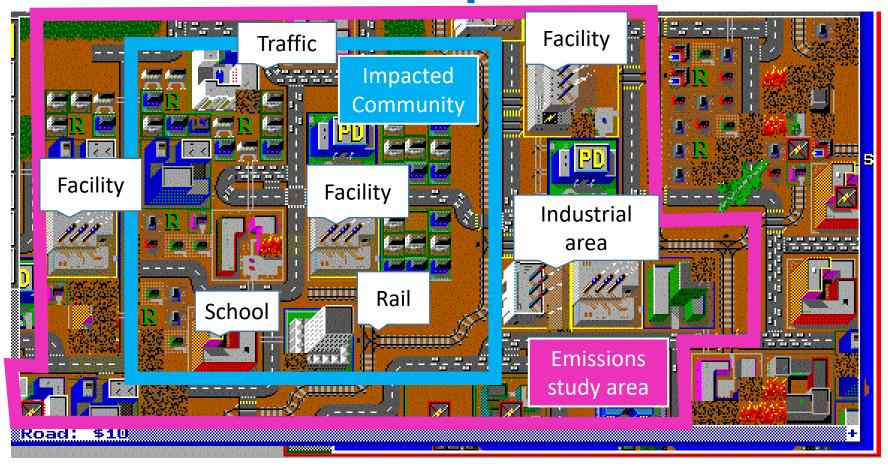
locations)



 Most of the sensitive receptors identified were along the freeways or around heavy truck traffic



Community Boundaries Example

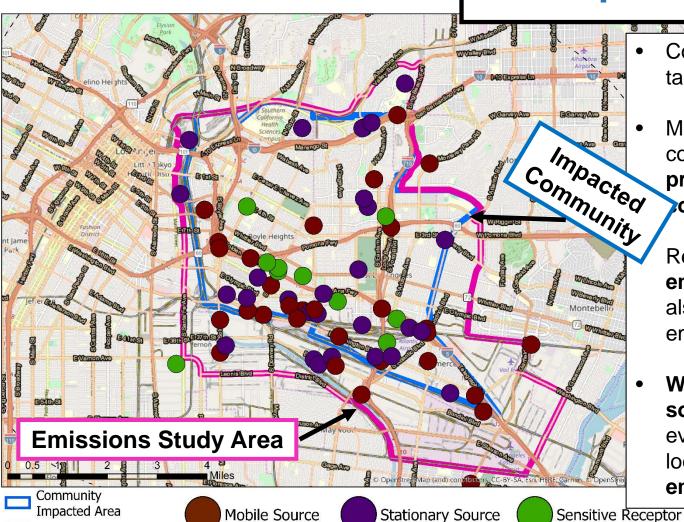


Impacted Community: Area of the community where people live, work, go to school, and spend the majority of their time.

Emissions study area: Region that includes the sources that affect the Impacted Community.



Updated boundary for input/discussion



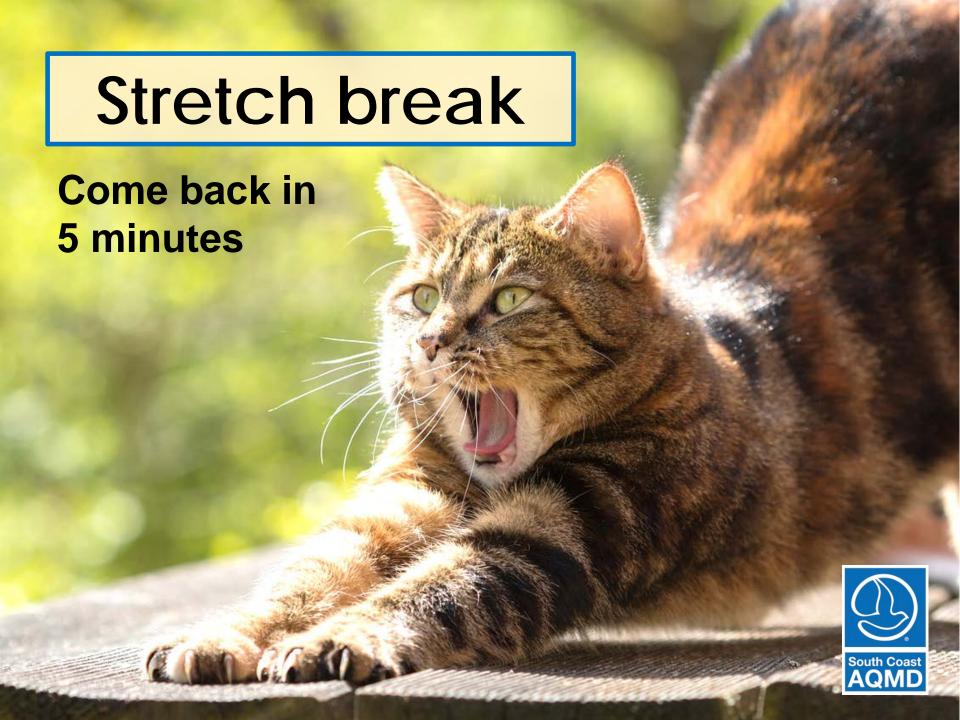
Emissions Study Area

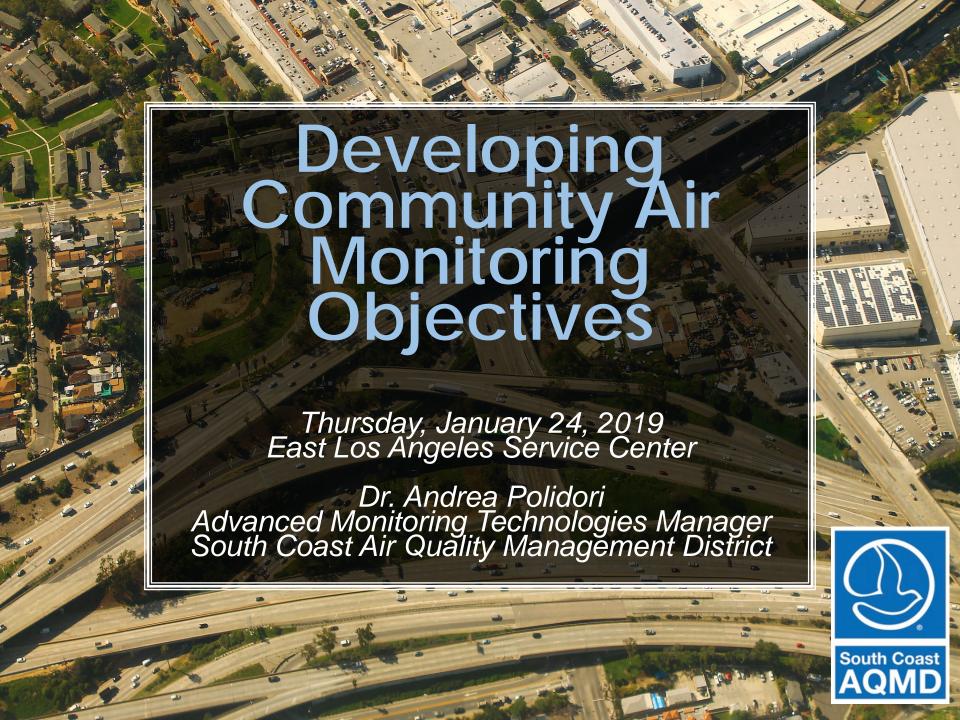
Community concerns were taken into consideration

Majority of community concerns fall within the proposed impacted ommunity boundary

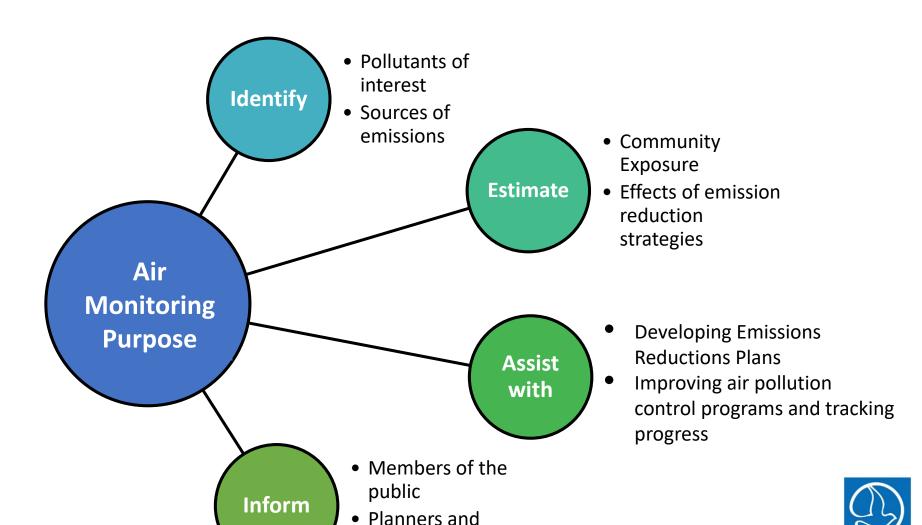
Regions within and near the emissions study area will also benefit from the emissions reductions

 Warehouse related mobile sources will be addressed, even if the warehouses are located outside the emissions study area





Why Do We Monitor Air Pollution?



regulators

What Are The Sources Of Air Pollution in this Community?











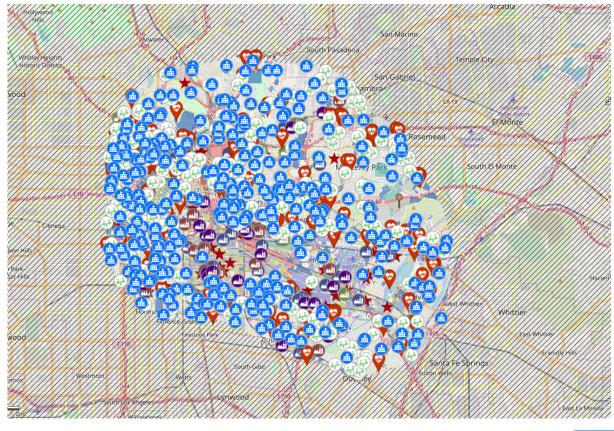


Sources of Air Pollution and Monitoring Challenges

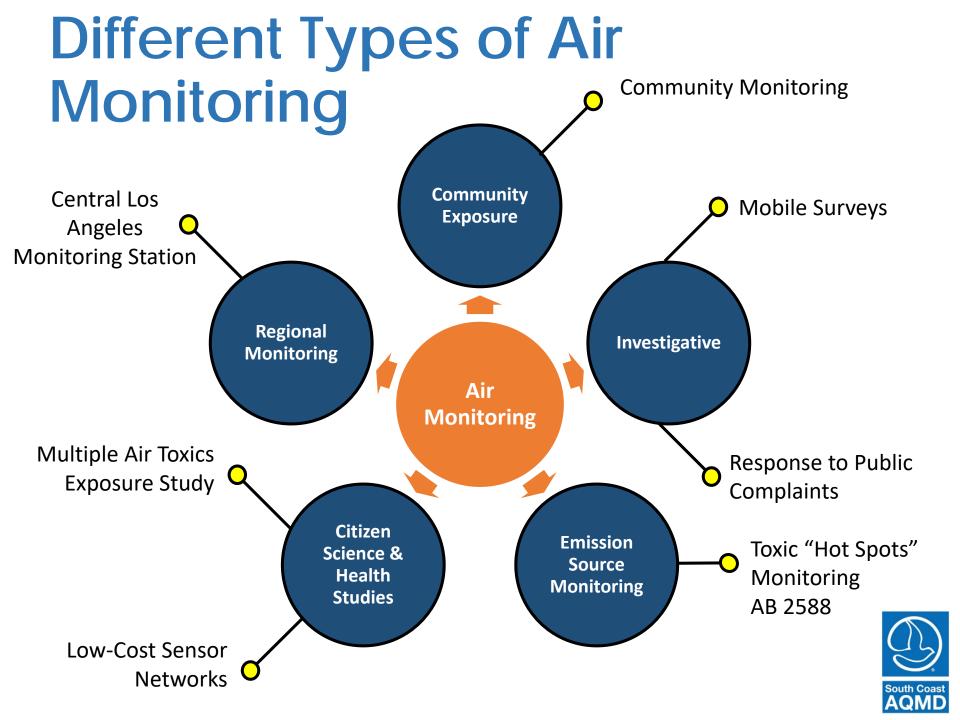
Sensitive Receptors, Industrial Facilities, and Residential, Commercial and Industrial Land Use

Monitoring Challenges

- Complex variety of emission sources
- Variety of air pollutants
- Large study area
- Monitor siting
- Complex meteorology





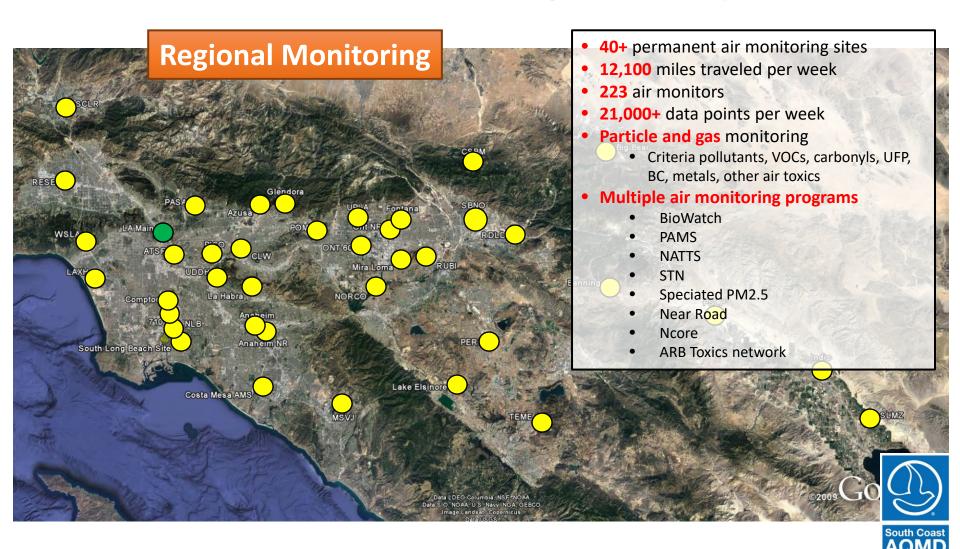


What types of monitoring are we doing in Boyle Heights/East Los Angeles/West Commerce?

- SCAQMD has been conducting monitoring in this community ahead of AB 617 monitoring schedule
 - Permanent monitoring programs (Fixed Network, Regulatory, Exide)
 - Sensor deployment in communities (EPA STAR Grant)
 - <u>Visit monitoring posters to learn more</u>
 - Other monitoring studies (MATES, sensor networks, NASA ROSES)
 - <u>Visit monitoring posters to learn more</u>
 - Complaints (1-800-CUT SMOG®)
- We will work with Community Steering Committees to ensure we are addressing the top priorities
- We use a combination of methods
 - Traditional methods Criteria pollutants (FRM, FEM, EPA Guidance)
 - Advanced methods Air toxics (sensors, remote sensing, mobile platforms)



Permanent Monitoring Programs (Fixed Network, Regulatory)



Air Monitoring at Exide

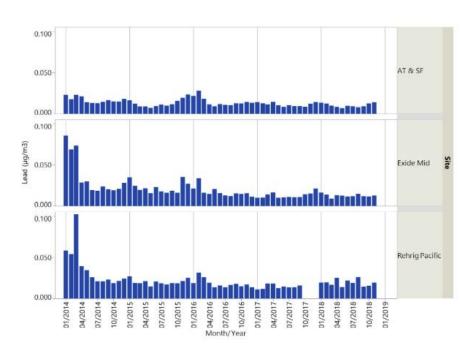
Fenceline Emission Source Monitoring

Reasoning:

- SCAQMD has been conducting Lead and Arsenic monitoring at Exide since 2007
- Exide also conducts Lead and Arsenic monitoring to satisfy Rule 1420.1 monitoring requirements

Findings:

 Overall decreasing trend in Lead levels since the adoption of Rule 1420.1 in 2008





Sensor Deployment in

East LA

Community Monitoring

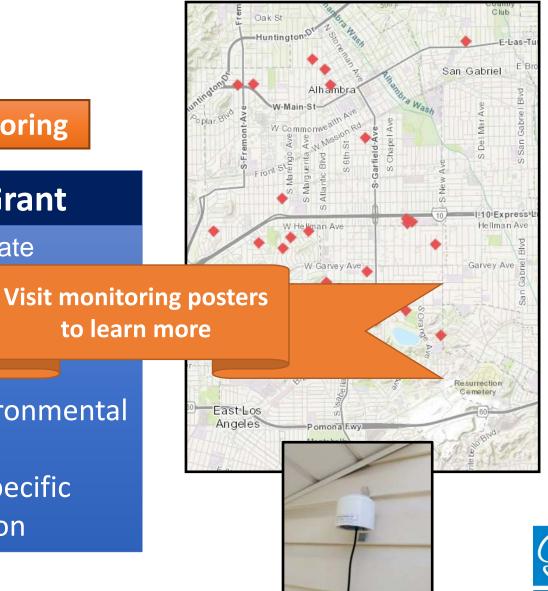
U.S. EPA STAR Grant

Purpose: to engage, educate and empower California Vison the use and

cost" air monitori targeting:

 Communities in Environmental Justice areas

Communities near specific sources of air pollution



AB 617 Community Monitoring Design

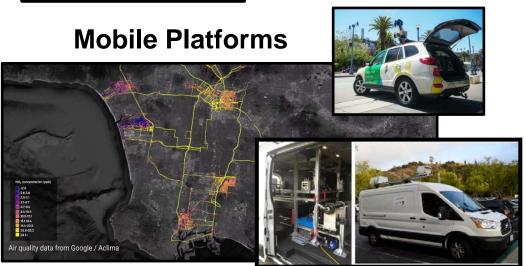
Transitioning into AB 617 Monitoring



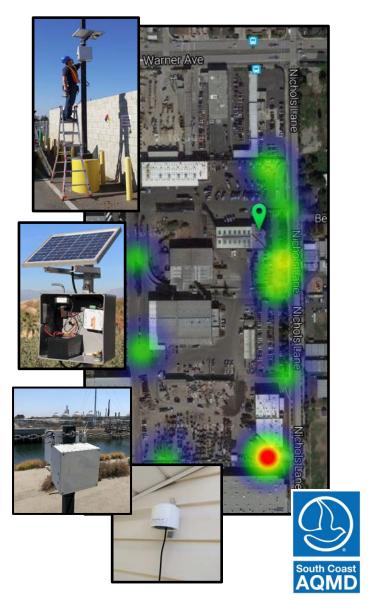
AB 617 Monitoring Efforts

Regulatory monitoring stations





Low-Cost Sensor Networks



New Approaches in Air Pollution Monitoring



Mobile Platforms



Limited to
Governments, Indu

Covers a Large Area, Identifying Hot-Spots and Emissions Sources, High-Time Resolution

Scientific Reports and Summaries

is data

is data

ected?

Traditional Monitoring



Visit monitoring posters to learn more

and Researchers

Compliance Monitoring, Enforcement, Trends, Research

Government Websites,
Permit Records,
Research Databases

Low-Cost Sensors



panded Use by mmunities and the Public

Citizen Science, Educational Tool, High-Time Resolution Real-Time Data

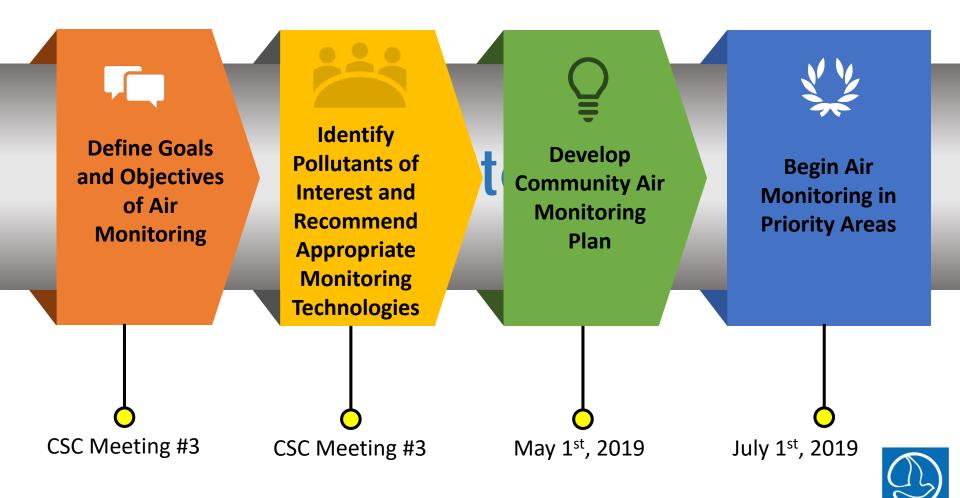
Community
Engagement, Increased
Data Availability

Air Monitoring Benefits and Limitations

		Reference Monitors	Low Cost Sensor Networks	Mobile Monitoring & Surveys
	Track progress			
Applications	Identify emission sources			
	Identify "hot-spots"			
	Compliance action	+		
Benefits	Good detection capability	+		+
benefits	Continuous data		+	+
	Real time data		+	
	High Cost	×		×
Limitations	Number of pollutants detected		×	
	Low accuracy/precision		×	



Working with the CSC Group





CSC charter and other important items

1. Updated CSC charter

- Very few comments received only minor wording changes for clarity
- Please sign and return to SCAQMD staff today, or by Jan 31, 2019

2. Biographies

 Please email to <u>ab617@aqmd.gov</u> as soon as possible so we can post on the webpage

3. Community Tour, including Facility Tour(s)

- Purpose: Providing committee members with an opportunity to share and gain a further understanding of key concerns in the community, as well as operations and clean air technologies at facilities
- Any volunteers/suggestions?

Meeting facilitator - Update

SCAQMD staff contacted facilitators suggested by CSC members, and are evaluating the firms for best fit.

Facilitator - Key Roles

- Keep meeting on topic (based on agenda items)
- Make sure participants understand and adhere to the rules stated in the CSC charter
- Help committee members have ownership of the process by ensuring that they make key and timely contributions
- Guide committee members to listen to each other
- Prevent any one participant from dominating the conversation, and seek to obtain as much valuable input as possible (including minority voices) before closing a discussion
- Ensure that the meeting ends on time



Current progress

What we've done so far:

- Discussed background on:
 - AB 617 program
 - Air pollution basics
 - Air pollution data in this community
 - Air monitoring technologies
- Gathered input on community air quality issues
- Gathered input on community boundaries

Likely topics for Meeting #3:

- Prioritization of air quality issues
 - To address through air monitoring and/or emission reduction plans
- Potential strategies
- Enforcement overview
- Update on RECLAIM/BARCT rule development (possibly Meeting #4)



Technical Advisory Group (TAG)

Purpose: Provide technical input on data and methods for modeling, monitoring, inventory

Current volunteers from this CSC:

Name	Affiliation		
Hector Garcia	Our Lady of Victory Catholic Church		
Marisa Blackshire	BNSF Railway		
Hector-Alessandro	Boyle Heights Neighborhood		
Negrete	Council		
Rafael Yanez	East Los Angeles Resident		

All meetings are open to the public

First TAG meeting is being scheduled for February 27, 2019



