COMMUNITY STEERING COMMITTEE

CSC # 1 - SELA

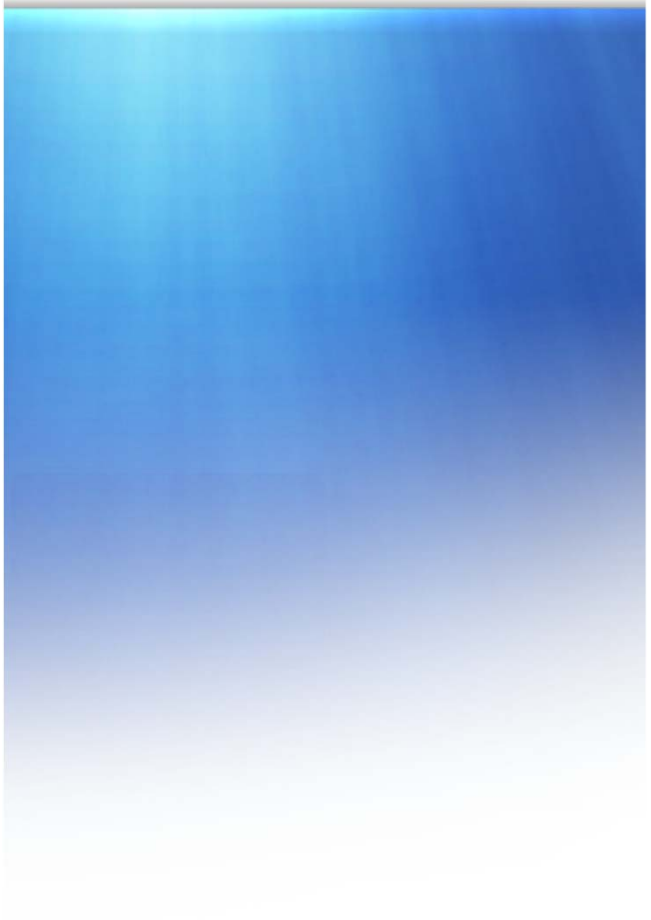
FEBRUARY 6, 2020

Gina Triviso
Sr. Public Information Specialist

South Coast AQMD

CSC ORIENTATION

- Welcome Letter
- Expectations of CSC Members
- CSC Charter
- Community Boundary Map
- Meeting Schedule



WELCOME LETTER & EXPECTATIONS

Expectations of CSC Members

- Community Network
- Communicate & Outreach
- Attendance & Participation
- Appropriate Representation
- **RESPECT**

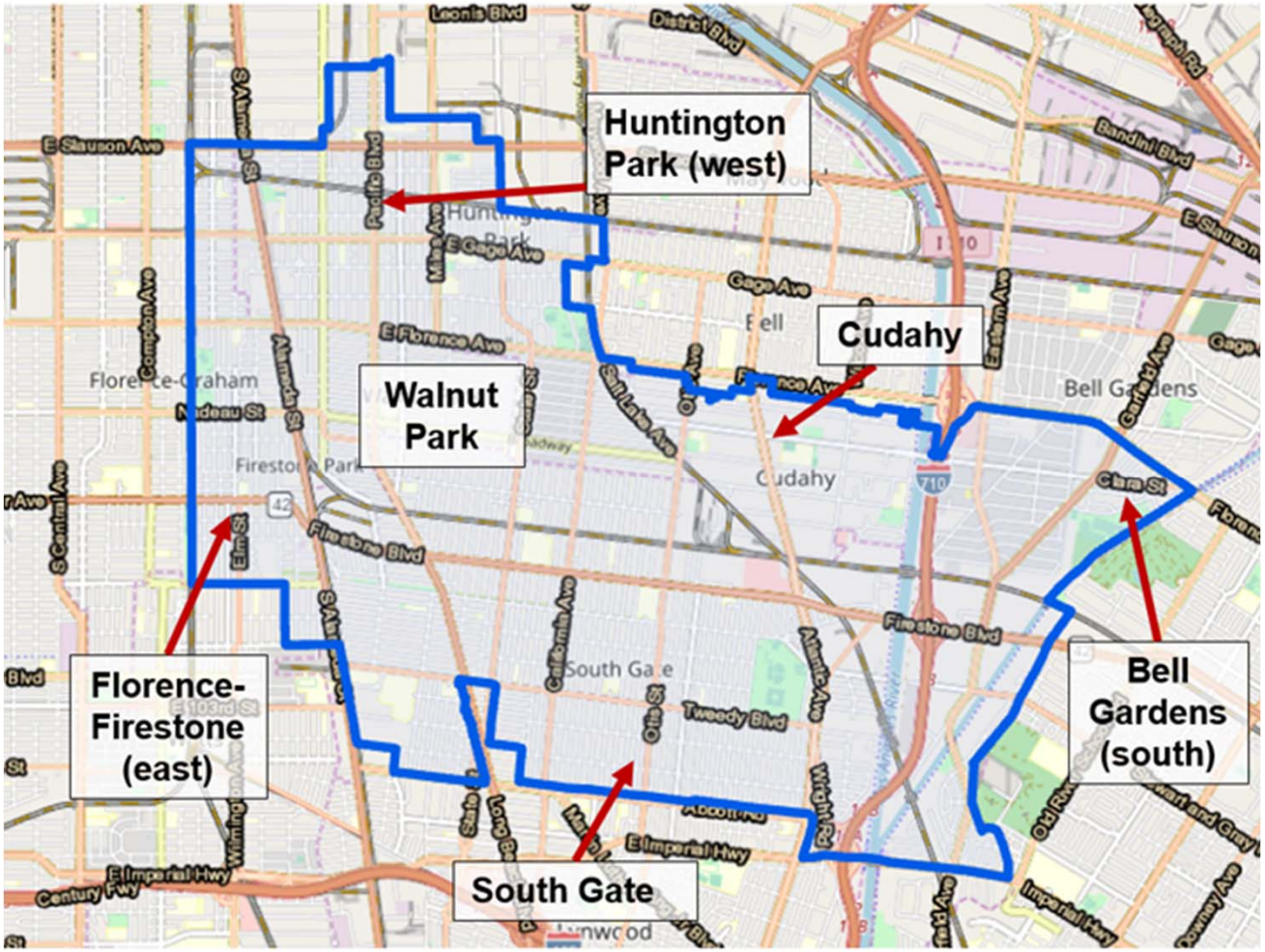
CSC CHARTER

Background

Mission

Membership

Guidelines



COMMUNITY BOUNDARY MAP

The boundaries include portions of South Gate, Florence-Firestone, Walnut Park, Huntington Park, Cudahy, and Bell Gardens

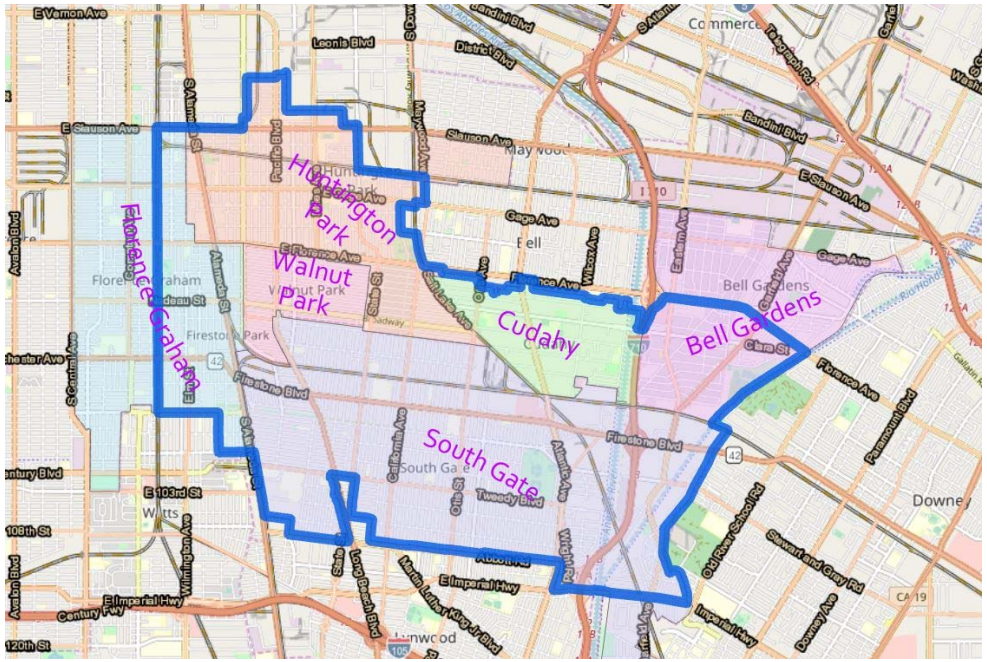
COMMUNITY BOUNDARY

Purpose: to guide where AB 617 resources will be focused in this community

- Air measurements
- Incentives (e.g., funding for cleaner trucks)
- Emissions reductions

Goals

- Identify the main impacted area*
- Identify the emissions study area** (*Includes both the impacted area and nearby air pollution sources*)



* Neighborhoods outside the "impacted area" will benefit from reducing air pollution emissions near the boundary

** South Coast AQMD rules, enforcement, and other programs apply to **all** facilities in our region

AB 617 – 2020 COMMUNITY STEERING COMMITTEE TENTATIVE SCHEDULE

January 9, 2020	**Community Kick-off Meeting** **Location:** **Salt Lake Park** **6:00 – 8:30 pm** **Huntington Park**
February 6, 2020	**Community Steering Committee Meeting** Location: Veterans Park 6:00 – 8:30 pm Bell Gardens
March 12, 2020	**Community Steering Committee Meeting & Monitoring Workshop** Location: Florence-Firestone Service Center 6:00 – 8:30 pm Los Angeles
April 9, 2020	**Community Steering Committee Meeting** Location: TBD
June 11, 2020	**Community Steering Committee Meeting** Location: TBD
September 10, 2020	**Community Steering Committee Meeting** Location: South Gate Park Auditorium 6:00 – 8:30 pm South Gate
October 8, 2020	**Community Steering Committee Meeting** Location: TBD
November 5, 2020	**Community Steering Committee Meeting** Location: South Gate Park Auditorium 6:00 – 8:30 pm South Gate

THANK YOU


CSC involvement and input is critical for successful CERP and CAMP implementation
Thank you for your continued commitment!

AB 617 COMMUNITY AIR MONITORING

SOUTHEAST LOS ANGELES CSC MEETING #1

Payam Pakbin
Program Supervisor

FEBRUARY 6, 2020

WHAT TYPE OF AIR MONITORING ARE WE DOING IN SOUTHEAST LOS ANGELES?

- South Coast AQMD has been conducting comprehensive air monitoring in this community ahead of AB 617 monitoring schedule
  - Multiple Air Toxics Exposure Study (most recently: 2008 – 2019)
  - Basin-wide flight-based measurements (2017 – 2019)
  - Sensor network development, community outreach and education; EPA STAR Grant (2018 – Present)
- We use a combination of methods
  - Traditional methods – Criteria pollutants
  - Advanced methods – Air toxics, odors

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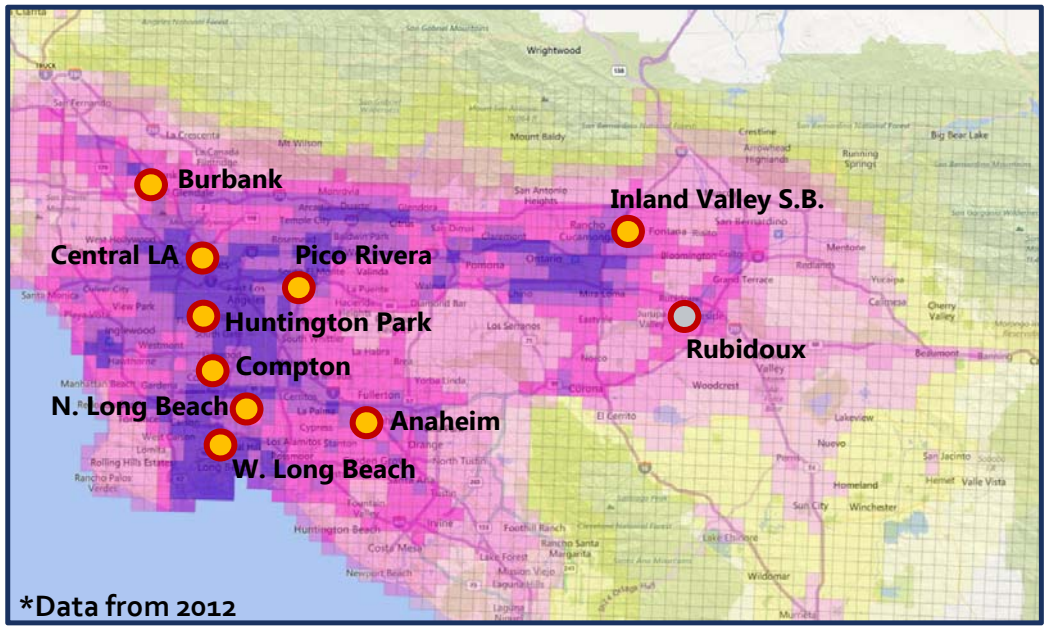
MULTIPLE AIR TOXICS EXPOSURE STUDY (MATES)

What it is: A study of regional air toxics impacts in Los Angeles Air Basin

Purpose:

- Provide the public with information on air toxics exposure and risk
- Evaluate progress in reducing air toxics exposure
- Provide direction to future air toxics control programs



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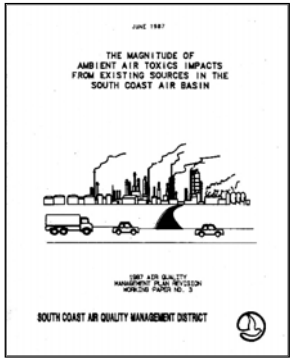
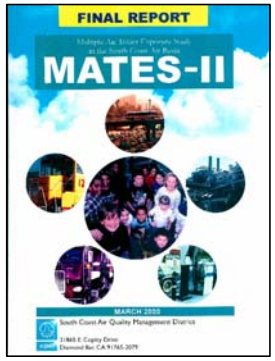
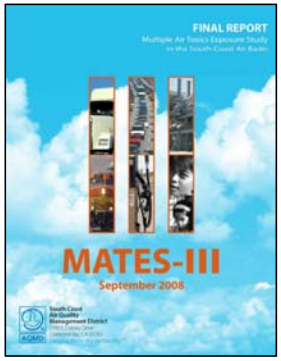
MATES OVERVIEW

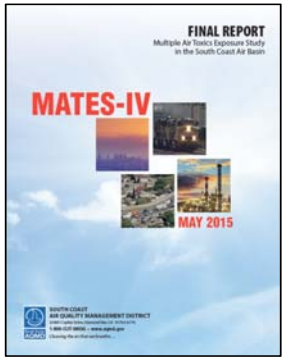
MATES I	MATES II	MATES III	MATES IV	MATES V
1986-87	1998-99	2004-06	2012-13	2018-Now

- Downward trend for most air toxics throughout MATES studies
- Diesel exhaust accounted for most of cancer risk from air toxics in all MATES studies
- One of the ten fixed sites located in Huntington Park since MATES II









http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v

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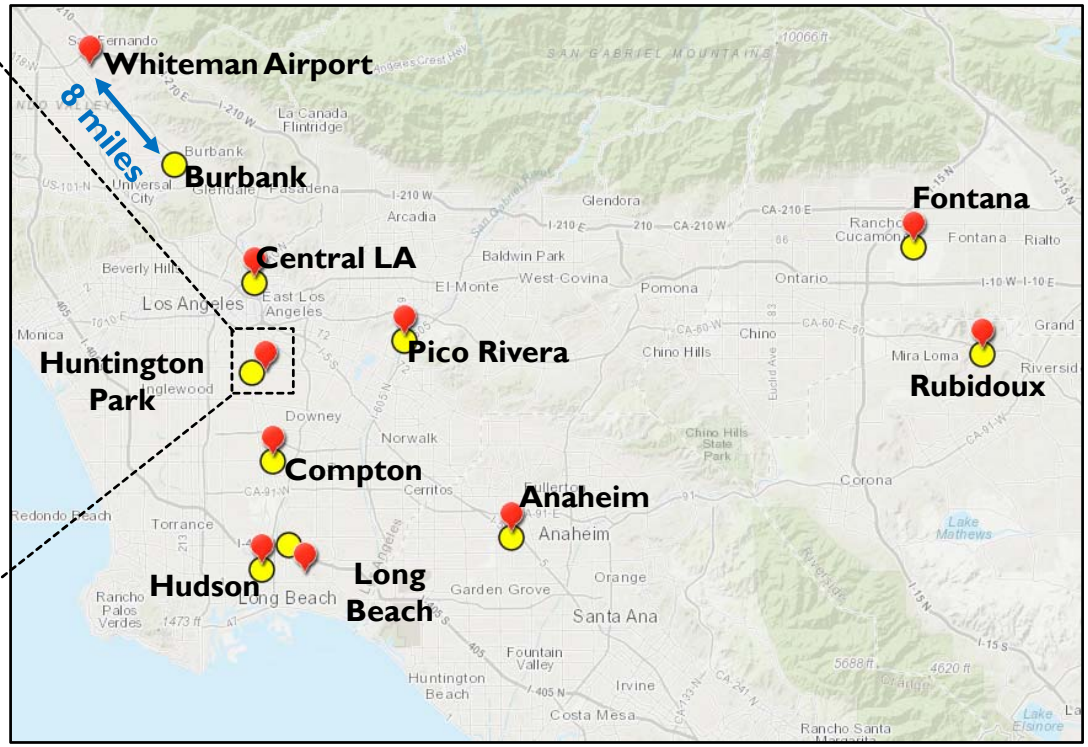
HUNTINGTON PARK MONITORING STATION



MATES V sites

MATES III & IV sites

Proposed Community Boundary

MATES III and IV: L.A. County Fire Station #164

MATES V: Gage Middle School

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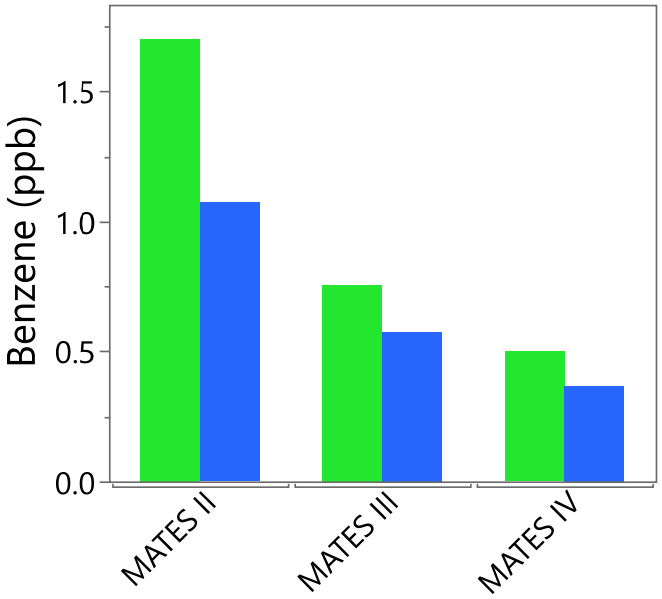
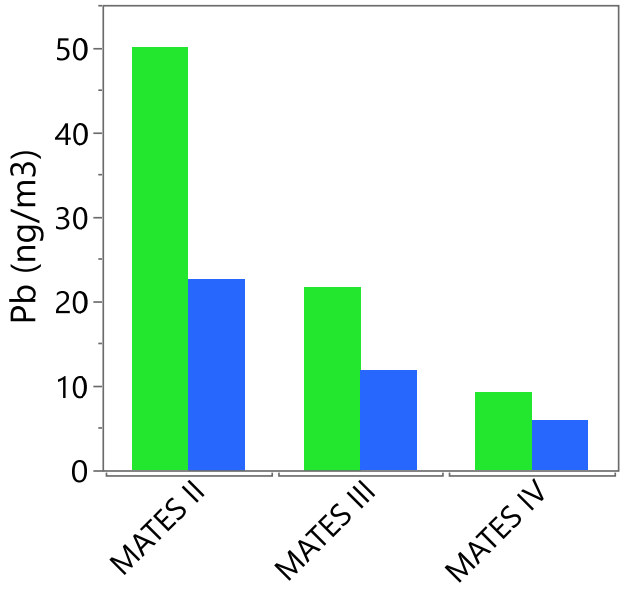
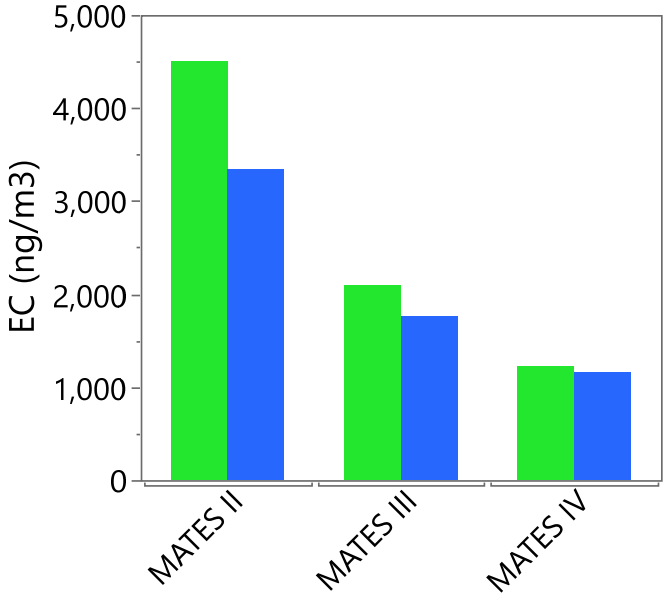
PROGRESS IN REDUCING AIR TOXICS







Huntington Park
Basin Average

MATES II	1998 – 1999
MATES III	2004 – 2006
MATES IV	2012 – 2013

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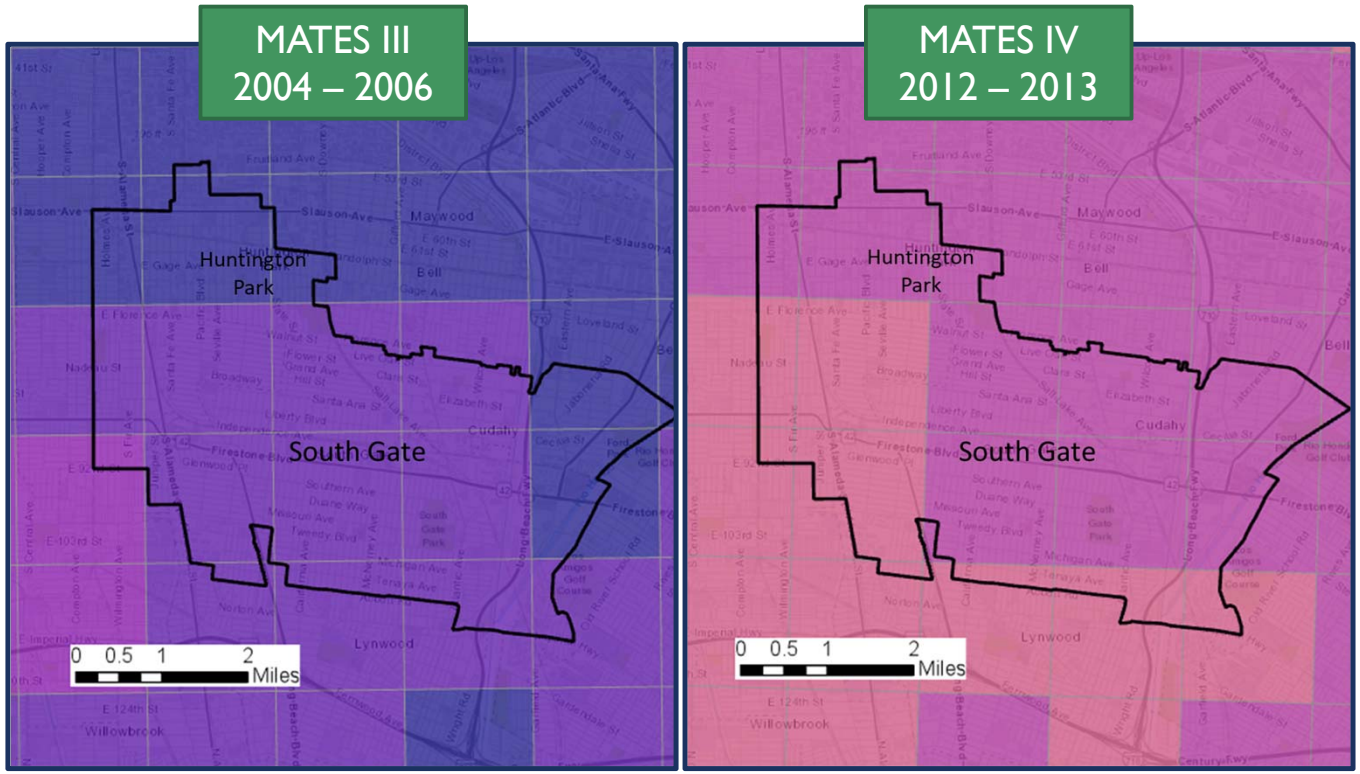
PROGRESS IN REDUCING AIR TOXICS



More than 50% decrease in cancer risk from air toxics since MATES III in the Basin

Diesel emissions declined by 70% since MATES III in the Basin

Diesel PM accounted for 2/3 of air toxics cancer risk in the Basin

Proposed SELA Boundary

Cancer Risk

- ≤100.000000
- ≤200.000000
- ≤300.000000
- ≤400.000000
- ≤500.000000
- ≤800.000000
- ≤1000.000000
- ≤1200.000000
- >1200.000000

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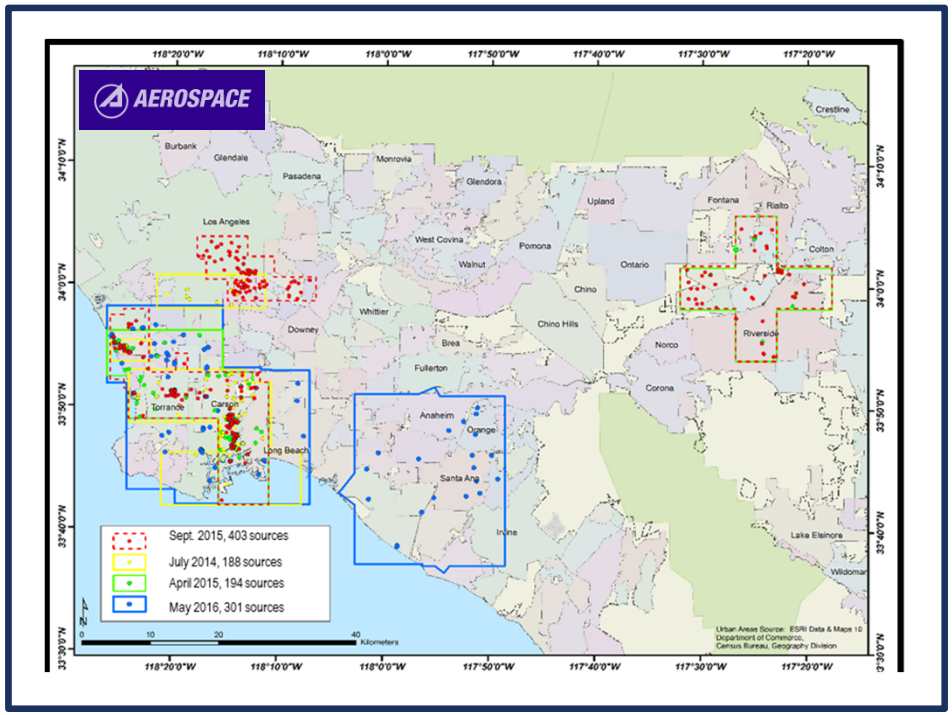
HOW ARE MATES RESULTS USED?

- Can serve as the **baseline measurements and reference point** for this community
- Helps to **interpret monitoring data** from future AB 617 community air monitoring
- **Focus South Coast AQMD efforts** for air toxics risk reduction
- **Evaluate progress** in reducing regional air toxics exposure
- **Address public inquiries** regarding air toxics impacts

BASIN-AREA FLIGHT-BASED MEASUREMENTS



Purpose:

- Survey large areas
- Detect plumes and emissions
- Identify hotspots and unknown sources
- Focus ground-based efforts

Target Pollutants:

VOCs and other gaseous air pollutants

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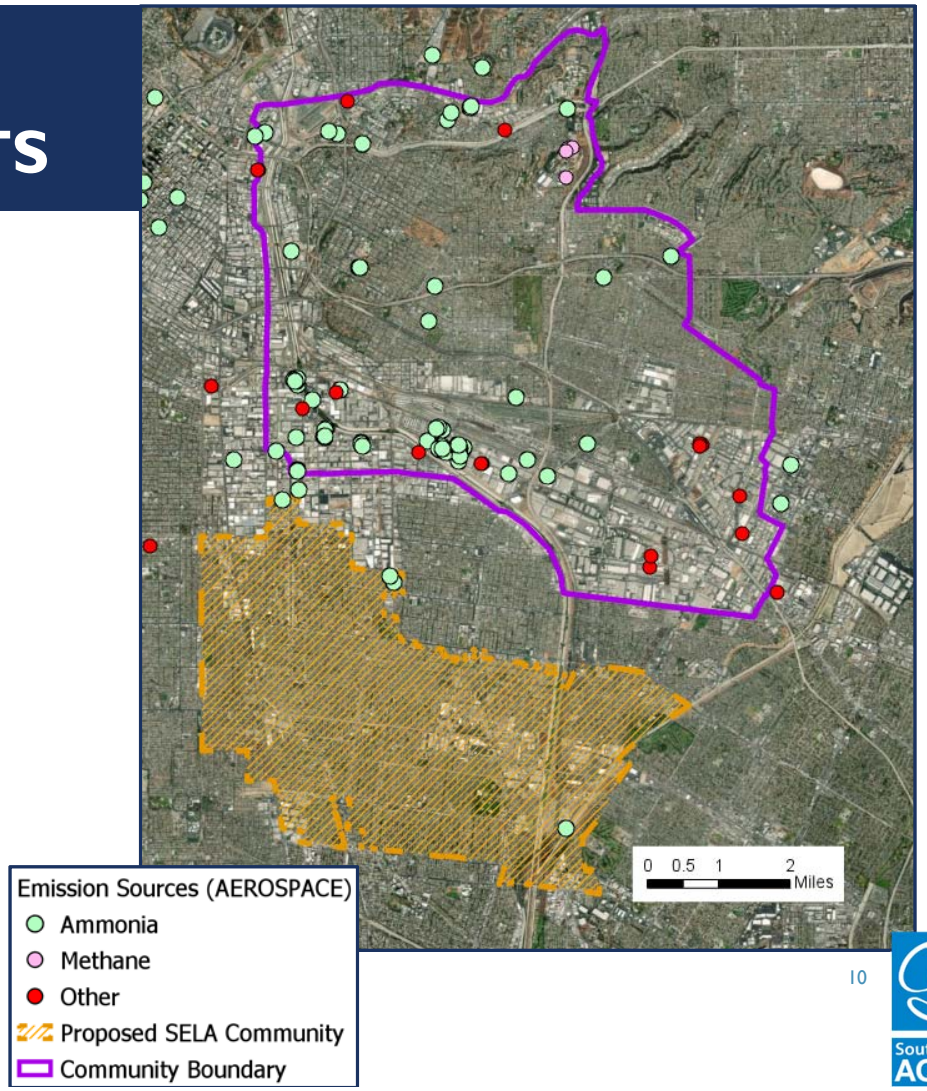
PRELIMINARY SURVEY RESULTS

- No major emissions of air toxics were detected
- Multiple potential sources of ammonia were identified
- Ammonia is emitted from many natural and industrial sources
- This information guides the next steps including investigative air monitoring at the hotspots



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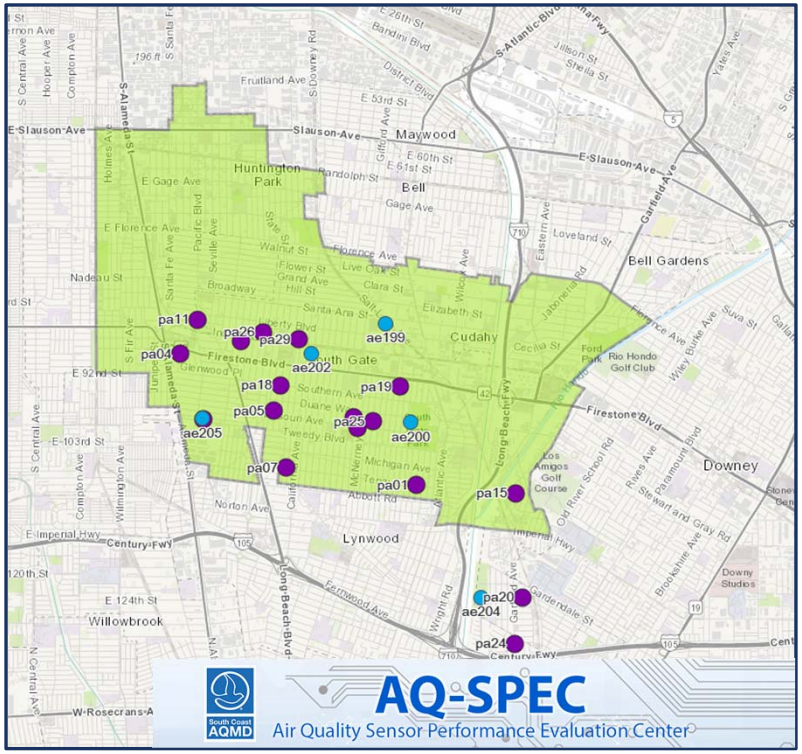
EPA STAR GRANT
SENSOR NETWORK DEVELOPMENT
COMMUNITY OUTREACH AND EDUCATION

What can we do with this data?

- Assess when and where particle or gas pollution levels are higher in the community
- Compare regional and local trends
- Evaluate impact of wind speed & wind direction
- Identify potential nearby pollution sources



PurpleAir – $PM_{2.5}$

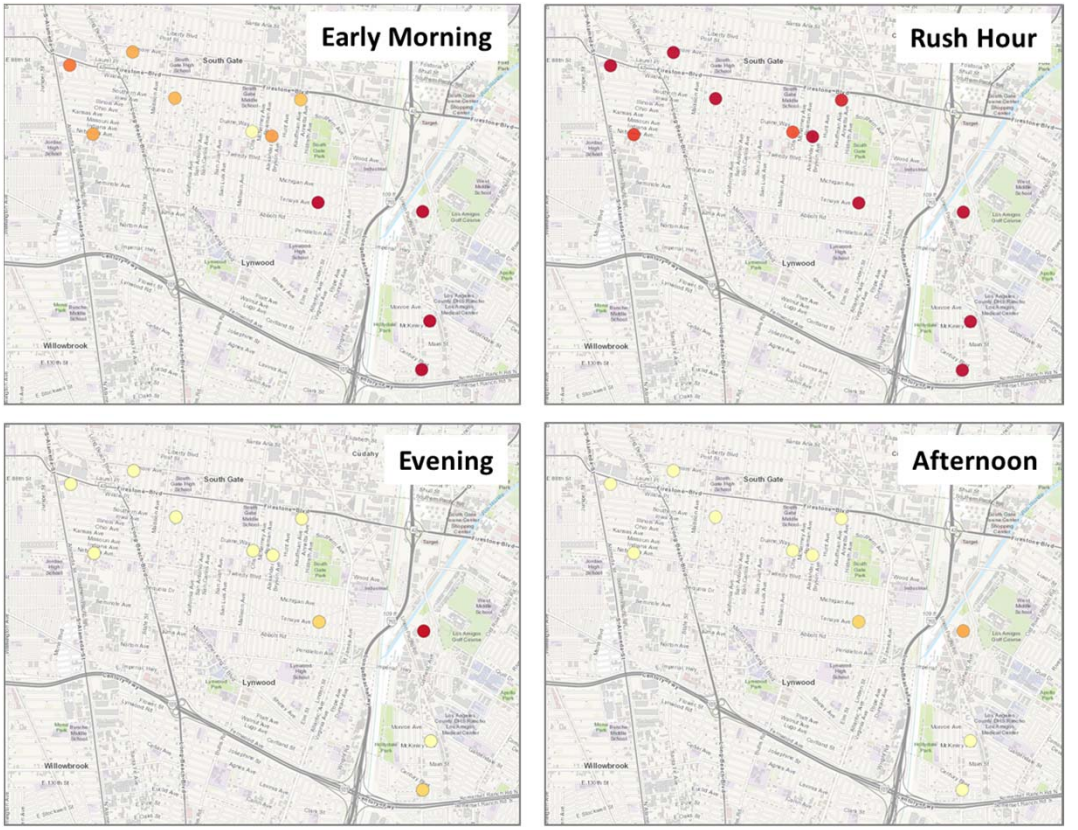
Aeroqual AQY – $PM_{2.5}$, O_3, and NO_2

http://www.aqmd.gov/aq-spec

SENSOR NETWORKS

Multiple sensors can:

- help us to better understand what may be the source of a plume
- help to identify the impacted areas
- inform community members in real-time

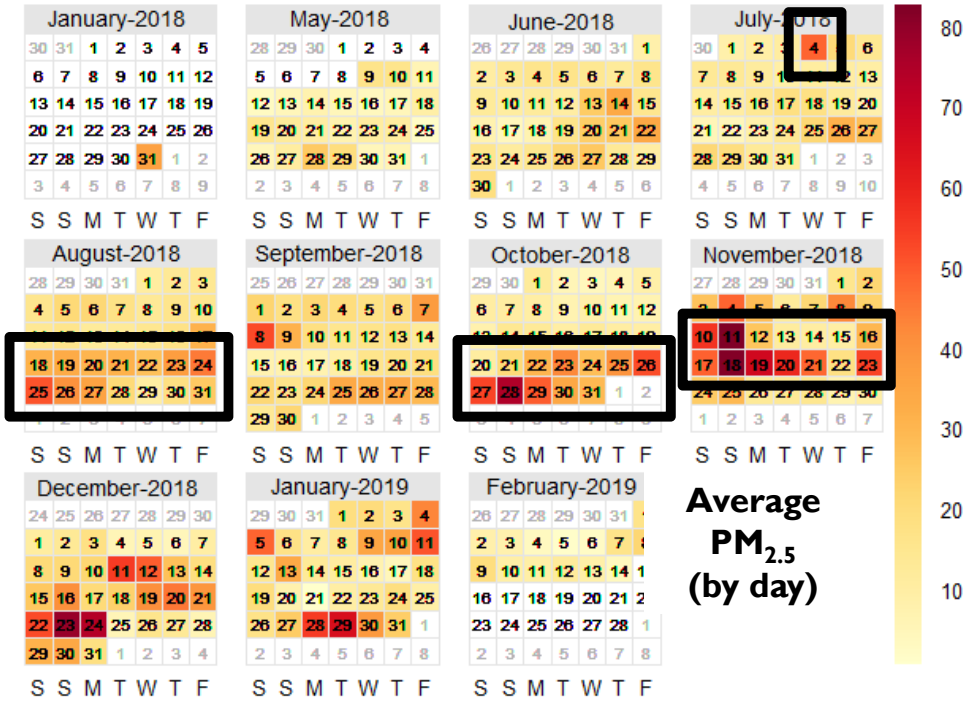


A SNAPSHOT OF THE DATA
AIR QUALITY EVENTS

- Average $PM_{2.5}$ concentration at one of the sites in Southgate

- "Air quality events" are visible in this data…
  - 4th of July
  - Woolsey Fire
  - Wildfire Season

- The sensors seem to be able to provide indicative information about local air quality as well as some detail regarding local sources



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COMMUNITY AIR QUALITY PRIORITY ACTIVITY
AB 617 COMMUNITY AIR MONITORING PLANS

Goal: Develop a Community Air Monitoring Plan (CAMP) and appropriate monitoring strategies based on selected air quality priorities
Purpose: CAMP to support Community Emission Reduction Plan (CERP) development and implementation

Monitoring serve many purposes:

- Identify pollution hotspots, to focus investigations
- Provide public information
- Support CERP actions
- Track progress

AIR QUALITY PRIORITIES

SOUTHEAST LOS ANGELES CSC MEETING #1
FEBRUARY 6, 2020




Dianne Sanchez, Ph.D.
Air Quality Specialist

COMMUNITY EMISSION REDUCTION PLAN (CERP) – DEVELOPMENT PROCESS

Launch

- Establish community steering committee (CSC)
- CSC identifies **air quality priorities**

Development

- Conduct regular CSC meetings and workshops to develop:
  - Emission reduction **goals and targets**
  - Identify **actions** and **strategies** to achieve goals and targets

Implementation

- CERP is **adopted** by South Coast AQMD Governing Board and **approved** by CARB Board
- Begin implementing CERP actions to reduce emissions

SOURCES OF AIR POLLUTION IN SELA

Top 5 Sources of **Diesel Particulate Matter (DPM)**

- A toxic air pollutant that comes from diesel engines
- Top contributor to air toxics cancer risk

1. Diesel buses* *(e.g., church bus, police bus)*
2. Trains
3. Medium heavy-duty diesel trucks
4. Heavy heavy-duty diesel trucks
5. Off-road equipment

*Excludes school and urban buses

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SOURCES OF AIR POLLUTION IN SELA

Top 5 Sources of **Reactive Organic Gases (ROGs)**

- A group of gases that can contribute to forming smog
- Examples: acetone, benzene, formaldehyde

1. Solvent evaporation *(e.g., paint, glue, perfume)*
2. On-road vehicles *(e.g., cars)*
3. Cleaning and surface coatings
4. Off-road equipment
   (e.g., construction equipment)
5. Petroleum production and marketing
   (e.g., gas stations and related facilities)

For more details, see CARB's 2019 Community Recommendations Staff Report at: ww2.arb.ca.gov/resources/documents/2019-community-recommendations-staff-report

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SOURCES OF AIR POLLUTION IN SELA

Top 5 Sources of **Fine Particulate Matter (PM 2.5)**

- Fine particles that can be inhaled deep into the lungs and cause health problems

1. Cooking and residential fuel combustion
2. Industrial processes
   (e.g., wood and paper, mineral, other)
3. Fuel combustion
   (e.g., electric utilities, manufacturing)
4. On-road vehicles (e.g., cars)
5. Off-road equipment (e.g., construction equipment)

For more details, see CARB's 2019 Community Recommendations Staff Report at: ww2.arb.ca.gov/resources/documents/2019-community-recommendations-staff-report

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AIR QUALITY PRIORITY EXAMPLES*

Reduce emissions from:

Truck traffic and I-710 freeway

Metal processing facilities

Railyards and locomotives

Autobody shops

Lumber manufacturing facilities

Construction or demolition sites

*The air quality priorities in the community may include, but are not limited to the options listed here

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AIR QUALITY PRIORITY EXAMPLES* CONTINUED

Reduce exposure at:

Schools

Residential areas

Places sensitive populations spend time *(e.g., senior centers, community centers)*

Address concerns about:

Green spaces

Land use

*The air quality priorities in the community may include, but are not limited to the options listed here

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EXAMPLES OF ACTIONS TO ADDRESS AIR QUALITY PRIORITIES

Truck Traffic

Action 1: *Reduce truck idling*

- Provide focused enforcement for idling trucks in the community
- Provide outreach on how to file a complaint for illegal truck idling
- Install "No idling" signage

Action 2: *Reduce emissions from heavy-duty trucks*

- Continue developing regulations to reduce emissions from trucks (CARB and South Coast AQMD)
- Identify incentive opportunities for cleaner trucks
- Work with local cities and counties to establish designated truck routes

Schools

Action 1: *Reduce exposure to harmful air pollutants through public outreach to schools*

- Provide air quality programs to schools
- Provide outreach to schools for asthma programs

Action 2: *Reduce exposure to harmful pollutants at schools*

- Install air filtration systems at schools prioritized by the CSC

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COMMUNITY AIR QUALITY PRIORITY ACTIVITY

What is the purpose this activity?

- To identify air quality priorities for SELA

How will this information be used?

- To help the CSC develop ways to reduce air pollution and exposure to air pollution in SELA

CSC Activity

- Join a table with new faces for discussion
- Discuss the group's top 3 air quality priorities
- Appoint a speaker to share the group's top 3 air quality priorities with the entire CSC

Please be respectful
Take turns listening to everyone's input

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