

Community Air Initiatives

San Bernardino, Muscoy Community Steering Committee Meeting #9

*Thursday, August 15, 2019
San Bernardino Valley College
San Bernardino, CA*



Announcements

- Community Testimonials
- Professor Jonathan London, UC Davis
- Community Tour

Please contact:
Daniel Wong
dwong@aqmd.gov
(909) 396-3046

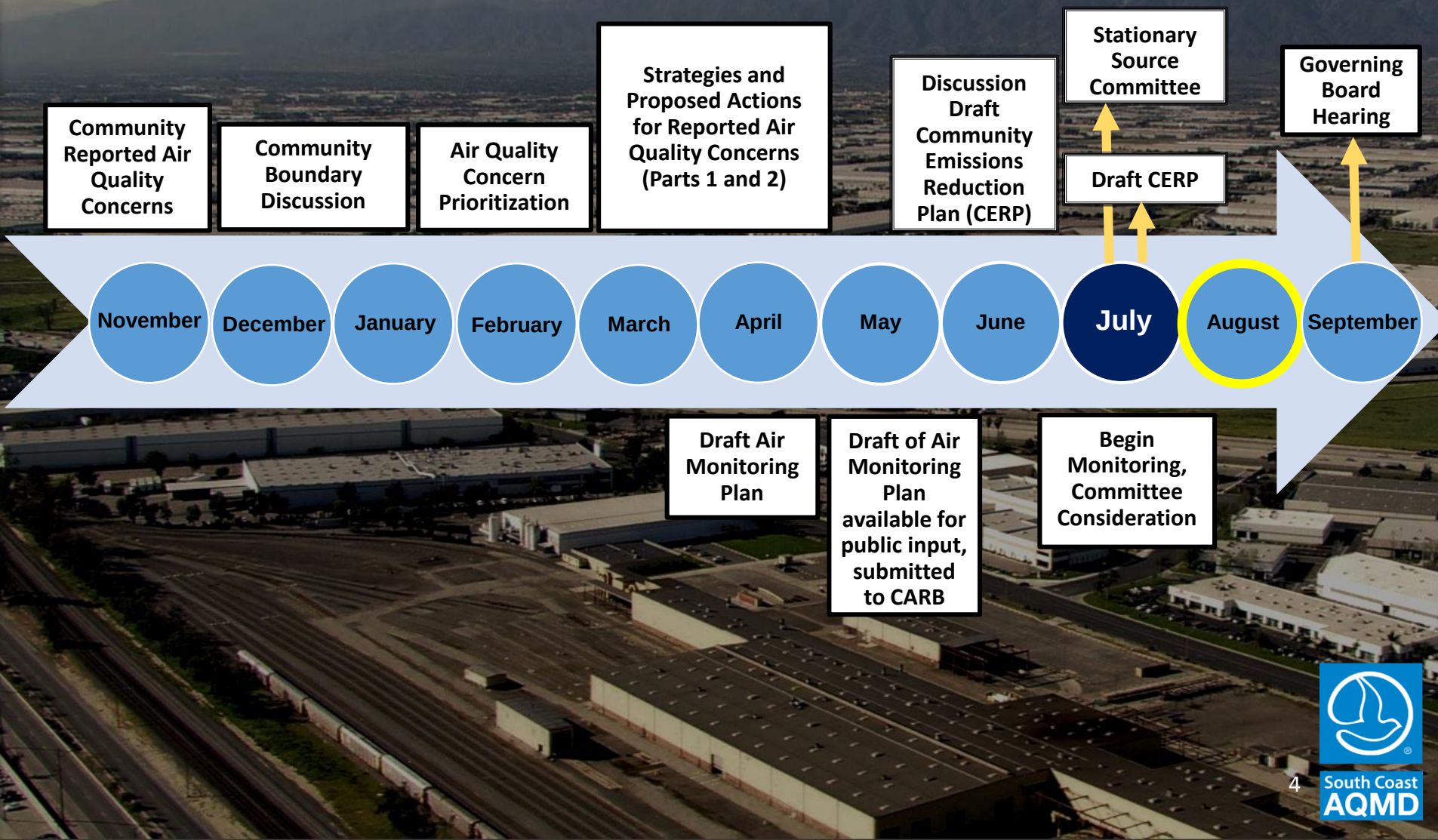


Meeting Objectives

- Governing Board Process Overview
- Stationary Source Committee Meeting Recap
- Discuss Draft Community Emissions Reduction Plan (CERP)
- Community Air Monitoring Highlights



SBM Progress



CSC Presenter:

**Chicano Indigenous Community for
Culturally Conscious
Advocacy & Action (ChICCCAA)
#MotherEarthRising**

Governing Board Process Overview

Governing Board Process

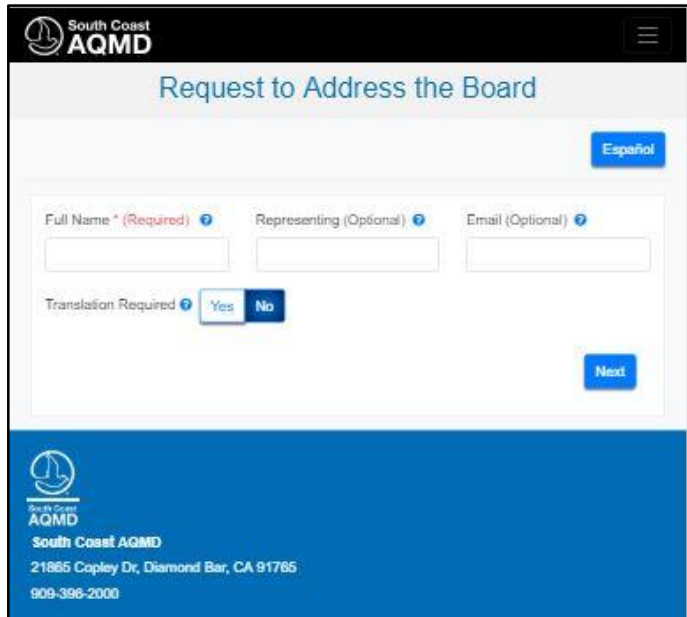


Governing Board
September 6, 2019
begins at 9:00 a.m.
South Coast AQMD Headquarters
Auditorium

- Meetings are [webcast](http://aqmd.gov) at aqmd.gov
- Agendas are posted [online](#) at least 72 hours before the meeting
- Staff will present overview of Year 1 CERPs to the Board
- Recommended action to the Board “Approve the AB 617 Community Emissions Reduction Plans for the Year 1 Communities”
- Governing Board consists of 13 members and may ask staff follow-up questions
- Public may participate in the public comment portion (for this or any item) 7

Public Comment

- To provide comments:
 - Use kiosks in lobby to request to address the Board
 - After entering your name, select the agenda item you wish to speak on
 - When that item is considered, watch for your name on the display and come to the podium to speak
 - Speakers will be limited to 3 minutes or less, depending on number of commenters



The screenshot shows a kiosk interface for the South Coast AQMD. At the top, the logo and name 'South Coast AQMD' are displayed. Below this is the title 'Request to Address the Board' and a blue 'Español' button. The main form area contains three input fields: 'Full Name * (Required)', 'Representing (Optional)', and 'Email (Optional)'. Below these fields is a 'Translation Required' section with 'Yes' and 'No' buttons. A blue 'Next' button is located at the bottom right of the form. The bottom of the screen features a blue banner with the South Coast AQMD logo, name, address '21865 Copley Dr, Diamond Bar, CA 91765', and phone number '909-396-2000'.

- After public comments, Board will vote on the item
 - If the majority* of the Board votes to approve, the CERP is adopted
 - After CERP adoption, staff can begin implementation
- Approved CERPs will be submitted to CARB for their Board's consideration

*A majority vote is achieved if at least 7 members of the Board vote for approval

Stationary Source Committee Meeting Recap

Stationary Source Committee Meeting

- The meeting held on July 26, 2019 was [webcast](#)
- [Agenda](#) and meeting [minutes](#) are posted online

Meeting Recap of AB 617 Items

- Staff presented on the CERPs for Year 1 AB 617 Communities
 - Key issues discussed:
 - Include analysis of emission sources
 - Include quantifiable emissions reduction targets
 - Address health metrics
- Staff recommended Communities for Year 2 Implementation of AB 617
 - Recommendations were supported by Stationary Source Committee



Key Issues Discussed at Stationary Source Committee Meeting

Issue	Response
Analysis of emission sources	- Sources of air pollution in this community are presented in Chapter 3b: “Emissions and Source Attribution” in the Draft CERP - Diesel particulate matter (PM) is the main air toxic pollutant in this community, and it comes mostly from on-road and off-road mobile sources (i.e., heavy-duty trucks) - In future years, diesel PM emissions decrease substantially due to CARB regulations, but continues to be the main driver of air toxics cancer risk in this community. e.g.,: - Advanced Clean Truck Rule - Heavy-Duty Low NOx Rule - Heavy-Duty Inspection and Maintenance (Heavy-duty Smog Check) - Transport Refrigeration Unit Regulation - Cargo Handling Equipment Amendment - Other key air toxic pollutants in this community are 1,3-butadiene (mostly from the chemical industry) and hexavalent chromium (mostly from brake wear)

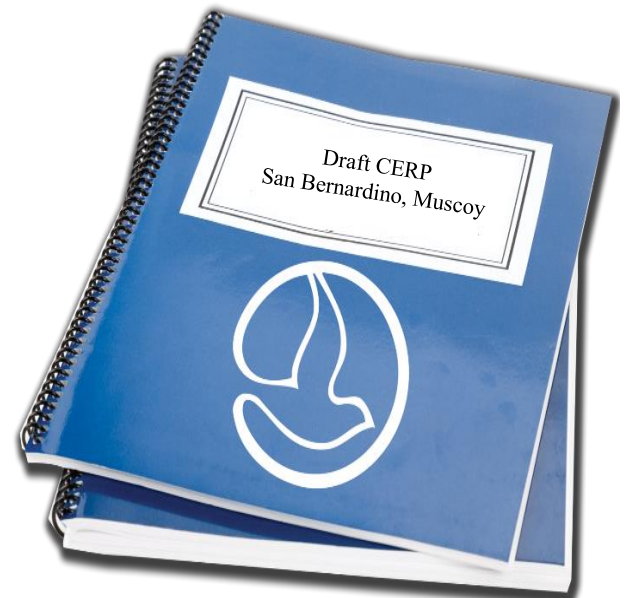
Key Issues Discussed at Stationary Source Committee Meeting

Issue	Response
Include quantifiable emissions reduction targets	• Estimated emission reductions targets are in the Draft CERP and will be further discussed today • Emission reductions are based on historical incentive projects • Estimates do not capture additional reductions based outside of community boundary or fugitive emissions (i.e., fugitive dust emissions from concrete batch plants) • Emission reductions that result from implementation of the CERP are above and beyond other South Coast AQMD measures (e.g., focused outreach, localized air monitoring and focused enforcement sweeps in areas identified by the CSC)
Address health metrics	• Focus of AB 617 is to achieve emissions reductions • Staff added collaboration with Arrowhead Regional Medical Center on BreathMobile Program in Chapter 5g: “Schools, etc.” of the Draft CERP to share information and provide outreach to schools for asthma-related programs that directly improve public health • Emission reductions from the CERP provide long term benefits for public health

Draft Final Community Emissions Reduction Plan (CERP) and Emission Reduction Targets

Draft Final CERP

- Submitted comments may be viewed [here](#)
- Comments that will be considered for Draft Final CERP
 - CSC Meeting #8, July 18, 2019
 - Comments received by August 6, 2019
- Expected release of Draft Final CERP: **August 30, 2019**



How will the actions reduce emissions?

Examples



Incentives

- Incentivize clean technology to reduce emissions from trucks, railyard equipment, etc.
- For example, reduce emissions from heavy-duty trucks transiting the community (Chapter 5b, Action 2)



Enforcement

- Focus on non-compliant trucks, equipment, and facilities
- For example, reduce emissions from illegal heavy-duty truck idling in the community (Chapter 5b, Action 1)



Rules and Regulations

- Establish requirements to reduce emissions from the source
- For example, develop proposed indirect source rule for warehouses (Chapter 5c, Action 2)

How will the actions reduce emissions?

Examples (continued)



Outreach

- Inform stakeholders about existing rules and regulations and how to comply
- For example, promote installation of infrastructure needed to support zero-emission vehicles and equipment (Chapter 5c, Action 3)



Monitoring

- Identify sources of emissions and track progress
- For example, locate sources of fugitive dust, particulate matter (PM10), and odors from concrete batch, asphalt batch, and rock and aggregate plants (Chapter 5f, Action 1)



Collaborations

- Form partnerships with other entities to address air pollution
- For example, support Omnitrans' transition to zero-emission buses (Chapter 5d, Action 2)

Emissions Reduction Targets

- Emissions reduction targets that are quantifiable are included in the CERP
- Some strategies or actions will result in emission reductions, but are not quantifiable at this time
- Although some emissions reductions have yet to be determined, measureable metrics have been included through the Goals section of the CERP

Strategy	Pollutant	Estimated Reductions	Additional Information
Outreach and Incentives	Nitrogen Oxides (NOx)	40 - 50 tons per year	• Chapter 5a: Introduction • Based on historical data of mobile source incentive projects • CERP actions include outreach and incentives to replace older, higher polluting equipment with newer, cleaner technology
	Particulate Matter (PM)	0.5 – 0.6 ton per year	

Emissions Reduction Targets

Strategy	Examples of CERP Actions	Estimated Reductions	Additional Information
Rules and Regulations (CARB)	- Advanced Clean Truck Rule - Heavy-Duty Low NOx Rule - Transport Refrigeration Unit Regulation - Cargo Handling Equipment Amendment - Drayage Trucks Rule - Zero Emission Fleet Rules - Potential New Locomotive Regulations	To Be Determined	- CARB is working on quantifying emission reductions, where possible - Rule development process includes a number of factors to determine emission reductions (e.g., applicable equipment, types of controls or limits, cost-effectiveness, etc.)
Rules and Regulations (South Coast AQMD)	- Warehouse Indirect Source Rule (ISR) - Railyards ISR		

Emissions Reduction Targets

Strategy	Examples of CERP Actions	Estimated Reductions	Additional Information
Monitoring and/or Focused Enforcement	- PM Fugitive Emissions - Fugitive dust from concrete batch, asphalt batch, and rock and aggregate plants - Reducing Truck Idling	To Be Determined	- Monitoring will determine where fugitive emissions occur - Follow-up inspections will reduce emissions by addressing the emission source



Updates on Community Air Monitoring in SBM

Payam Pakbin, PhD
Program Supervisor

Fixed Monitoring

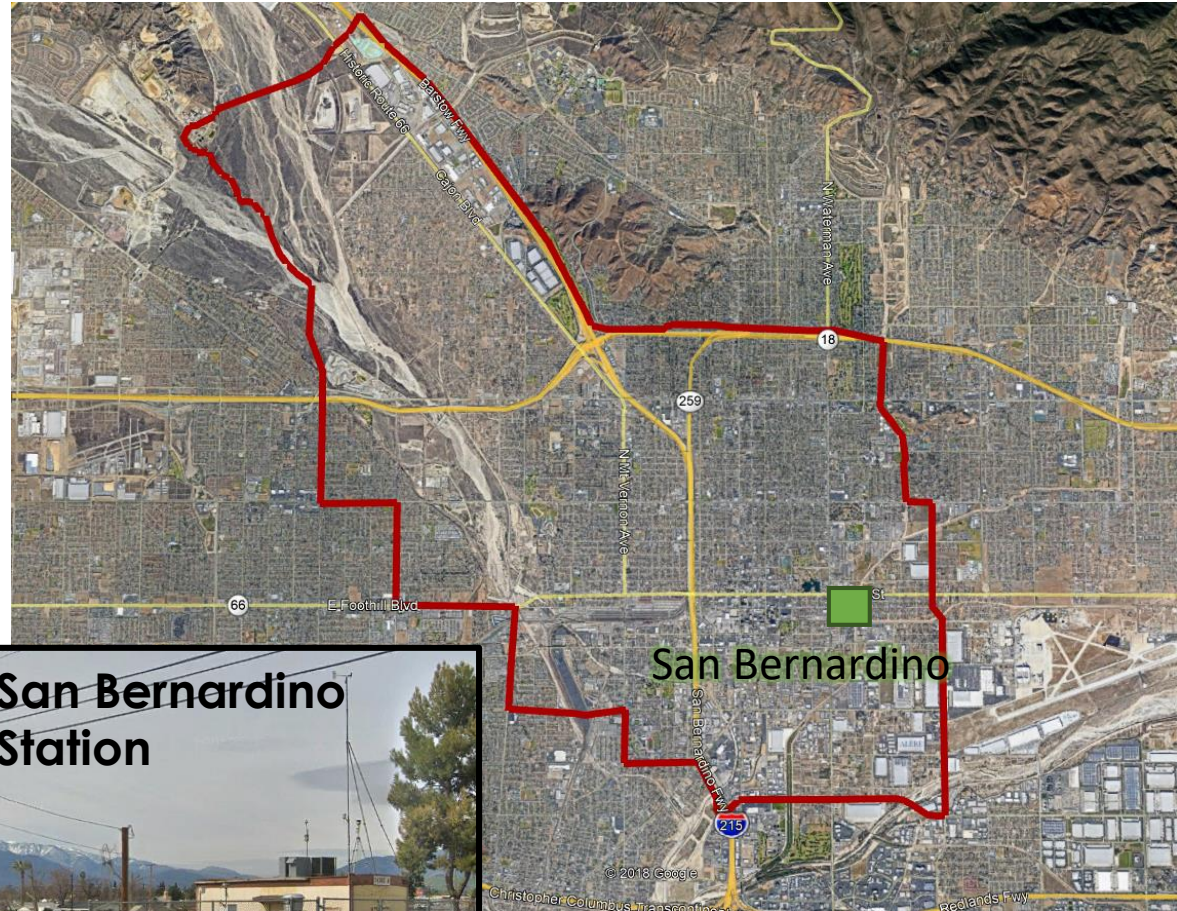
Baseline

Purpose: to provide information about general air quality conditions in this community and track progress

Fixed monitoring continues at two sites

Data Access:

- Continuous data: data display tool
- Time-integrated: next feature to be added to data display tool

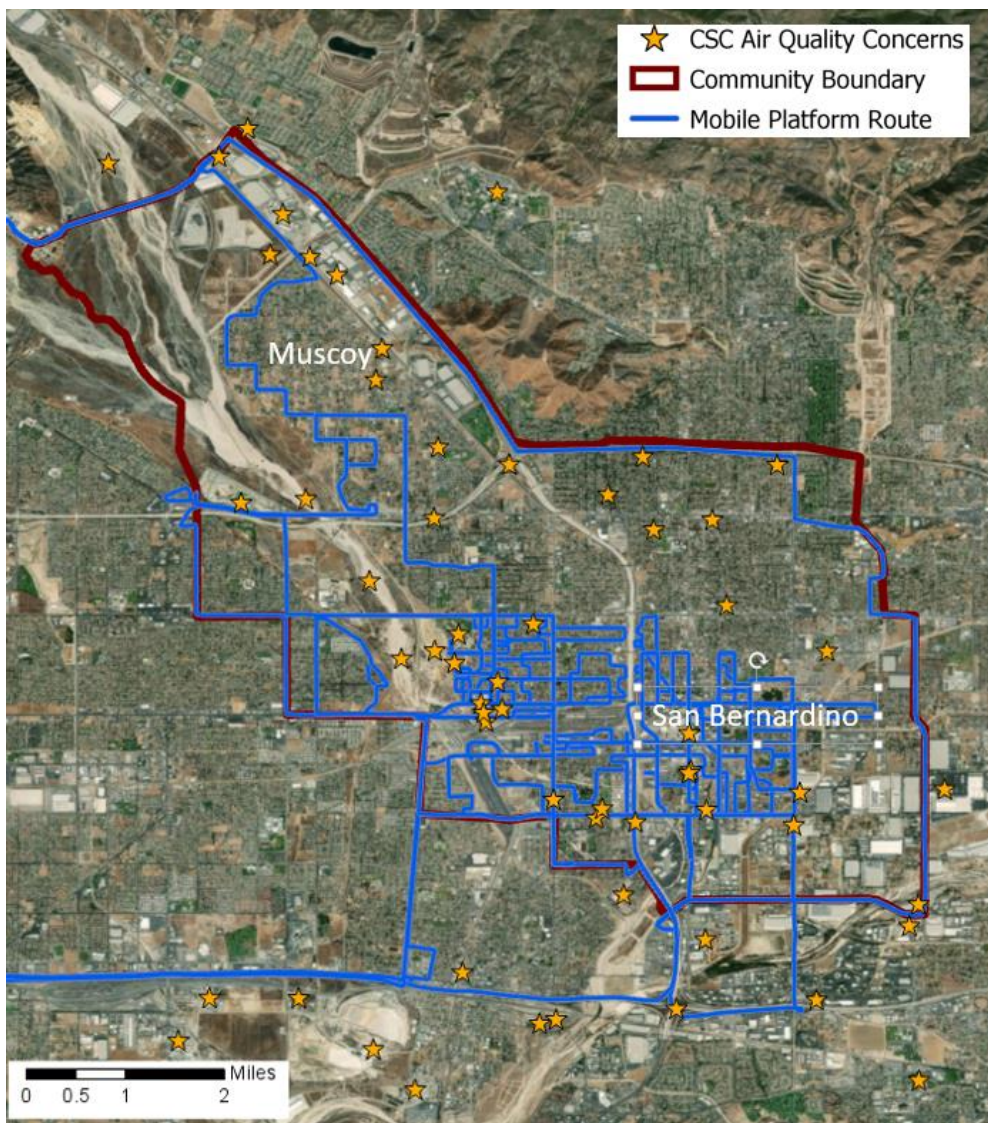


AB 617 Mobile Monitoring

Mobile Platform Measurements:

- 3 measurement days
- Additional monitor was deployed on mobile platform to measure methane (a good tracer for natural gas emissions)
- Majority of CSC air quality concerns were surveyed
(data is being processed)

Periodic AB 617 mobile surveys in this community



AB 617 Mobile Monitoring



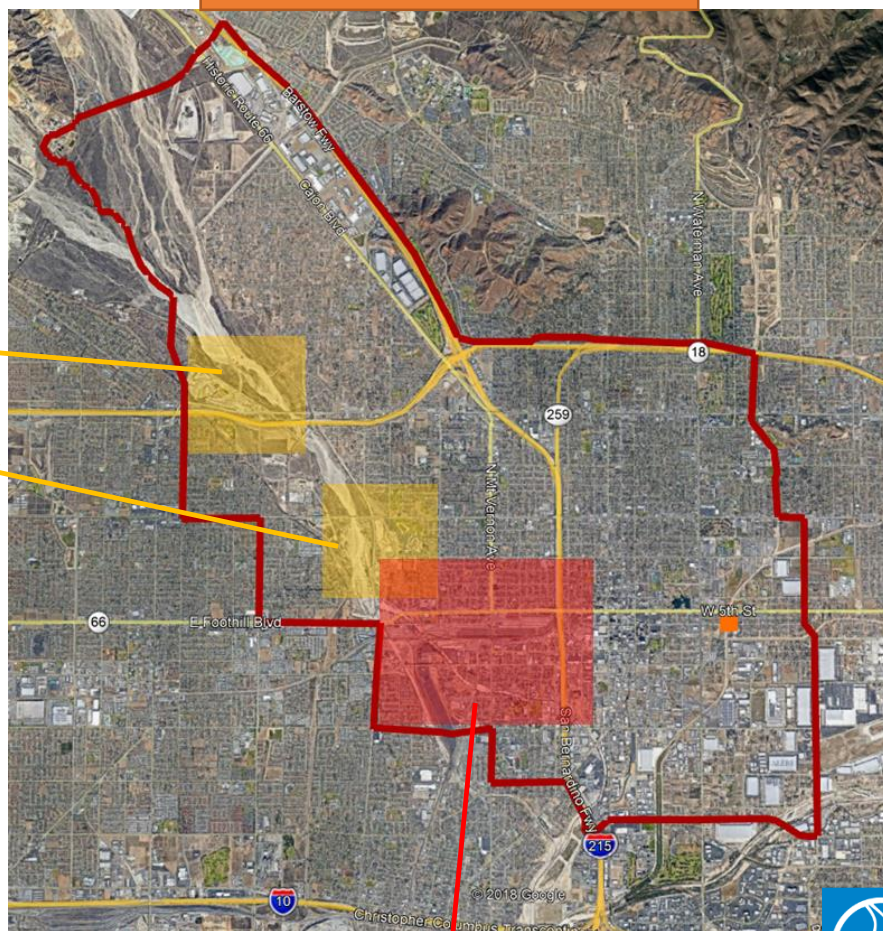
Cement
Handling
Facilities

July Update: Wide area survey covering the community boundary and some of the major roadways

August Update: Targeted area surveys covering priority areas:

- Omnitrans Bus Yard
- BNSF Railyard
- Cement Handling Facilities

Targeted Area Surveys



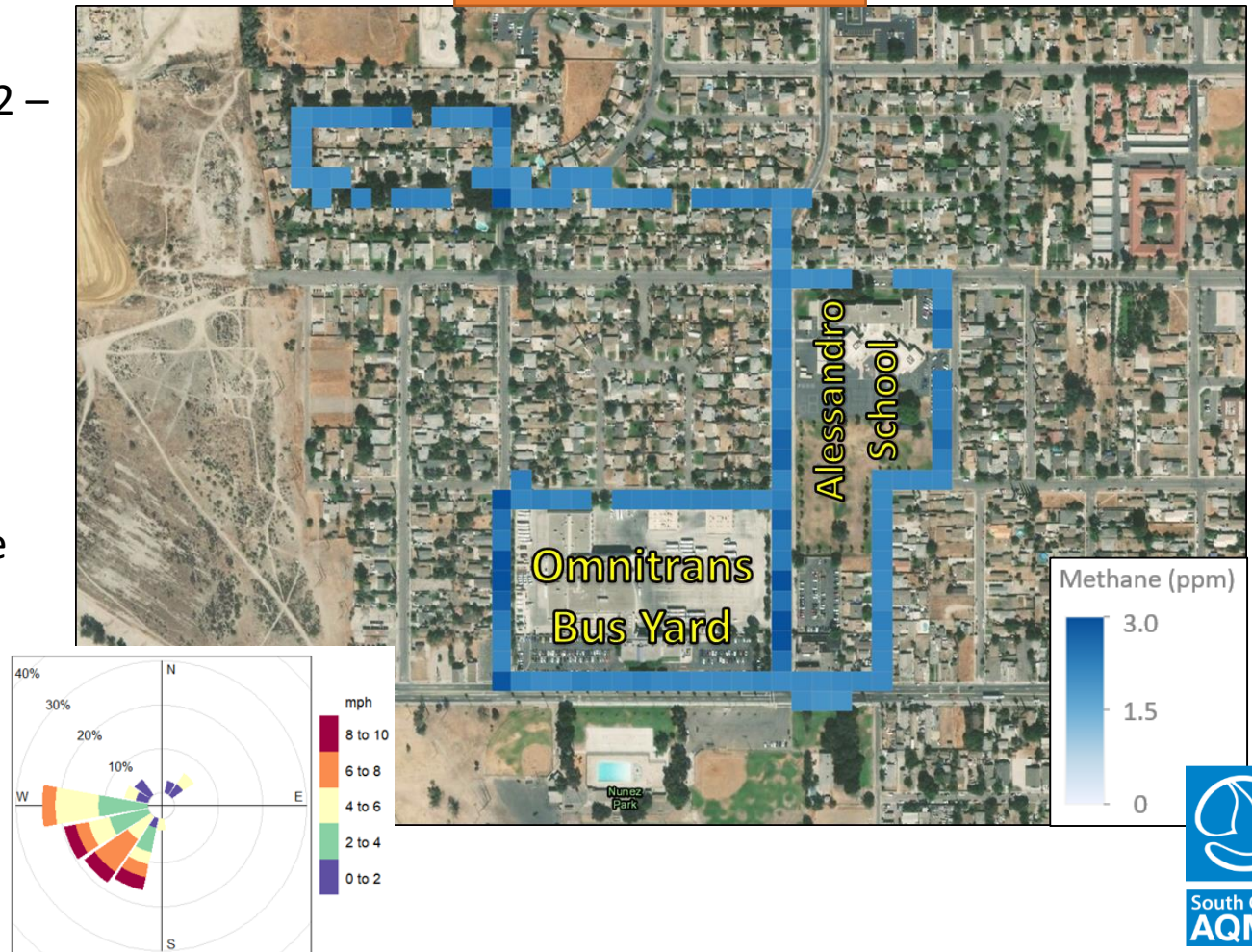
Omnitrans & BNSF Railyard &
downwind areas

Omnitrans Bus Yard

Targeted Survey:

- 7 passes around Omnitrans (between 12 – 3PM)
- Additional surveys around Ramona Alessandro School and nearby community
- Mobile measurements conducted at the proposed sites to guide the selection
- Methane levels were within typical ambient levels (~2 ppm)

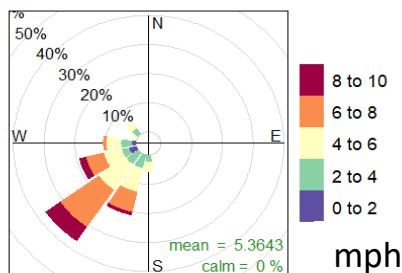
Preliminary Results



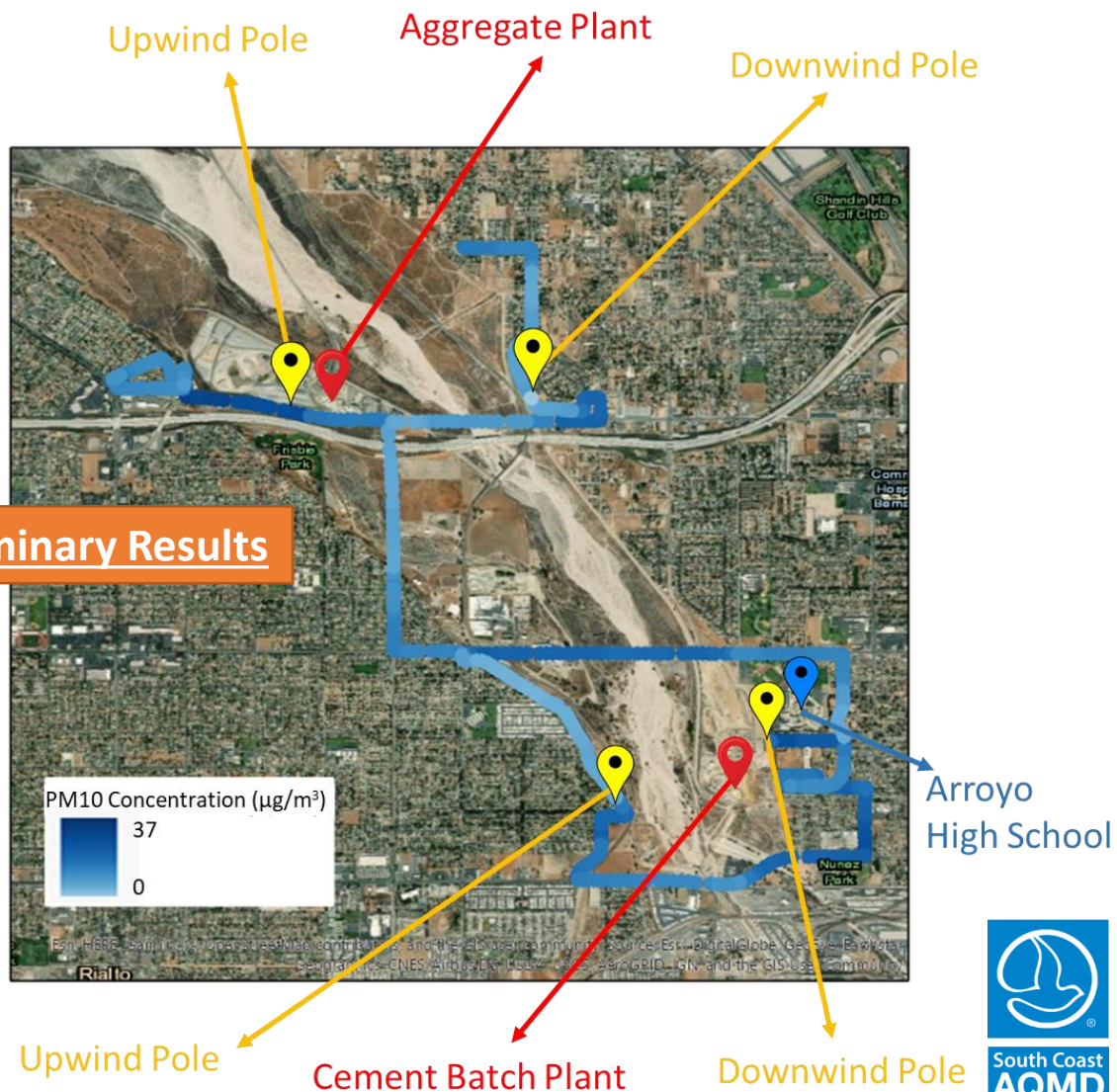
Cement Handling Facilities

Targeted Survey:

- Sites have been identified for fugitive dust and hexavalent chromium (fixed) monitoring
- Mobile measurements conducted at the proposed sites to guide this selection
- PM10 24-hr Standards:
 - NAAQS = $150 \mu\text{g}/\text{m}^3$
 - CAAQS = $50 \mu\text{g}/\text{m}^3$



Preliminary Results





Contact Info

Andrea Polidori, PhD

Email: **apolidori@aqmd.gov**

Office: **909-396-3283**

Payam Pakbin, PhD

Email: **ppakbin@aqmd.gov**

Office: **909-396-2122**

Next steps and important reminders

Future meeting date and location:

- CSC Meeting #10: September 19th (6:00 p.m. – 8:30 p.m.) at San Bernardino Valley College

Likely agenda items for CSC Meeting #10:

- September Governing Board Meeting Recap
- Final CERP
- CARB Board Consideration Process
- Community Air Monitoring Highlights

**Is the CSC okay
with these topics?**

**Any additional
topics?**

Important Dates and Deadlines

Draft Final CERP to be submitted to Governing Board:

September 6, 2019

Begins at 9:00 am

South Coast AQMD Headquarters in the Auditorium

Thank you for the hard work!

More information on AB 617:

www.aqmd.gov/AB617

Email: AB617@aqmd.gov

Follow us [@SouthCoastAQMD](https://www.instagram.com/SouthCoastAQMD)

