

Community Air Initiatives

San Bernardino, Muscoy Community Steering Committee Meeting #10

*Thursday, October 17, 2019
San Bernardino Valley College
San Bernardino, CA*



Community Testimonials

Community Tour Recap



Community Tour Recap (continued)



Meeting Objectives

- Governing Board Meeting
Recap and Next Steps for CARB
- Truck Idling Locations Activity
- AB 617 Incentive Fund Projects
- Community Air Monitoring
Highlights
- CSC Member Roster



Governing Board Meeting Recap and Next Steps for CARB

Governing Board Meeting Recap

- Meeting was held on September 6, 2019
- Staff presented all 3 AB 617 Year 1 CERPs
- Each CERP was adopted by the Governing Board
- The Governing Board agenda (i.e., CERP, presentation, etc.) is available at:
<http://www.aqmd.gov/home/news-events/meeting-agendas-minutes>
- The meeting can be viewed at:
<http://www.aqmd.gov/home/news-events/webcast>



Next Steps for CARB

October
2020

- South Coast AQMD staff will submit CERPs to CARB for review

January
2020

- CARB staff will hold a community meeting to hear from the community as staff develop recommendations on the CERP

February
2020

- CARB staff will recommend approval of the CERP if it meets the criteria of the Final Community Air Protection Blueprint

March
2020

- The CARB's Board will vote on the recommendations in the staff report

Community Emissions Reduction Plan (CERP) Implementation Prioritization Activities

CERP Implementation: Idling Truck Sweeps



AB 617 SBM Community Steering Committee
October 17, 2019

California's Commercial Vehicle Idling Regulation

- Purpose: To reduce public exposure to diesel particulate matter and other air contaminants by, among other things, limiting the idling of diesel-fueled commercial motor vehicles
- Airborne Toxic Control Measure (ATCM) adopted by CARB in 2004 [Title 13, CCR, Section 2485]
- Can be enforced by CARB, peace officers in CA, and local air districts (e.g., South Coast AQMD)

What Is Covered by the Anti-Idling Rule?

- On-road, diesel-fueled commercial motor vehicles with a gross vehicle weight rating of at least 10,000 pounds
- Vehicles operating in California, whether or not registered in the state
- Diesel-fueled auxiliary power systems (APS), such as for air conditioners, heaters, or other equipment that allow resting in a sleeper berth

What Is Not Covered?

- Pickup trucks and other personal vehicles
- Motorhomes and trailers
- Non-diesel fueled trucks (e.g., gasoline or natural gas)
- Off-road vehicles, such tractors, cranes, and bulldozers
- Transport Refrigeration Units (TRUs)

Idling Restrictions

1. Without a “Certified Clean Idle” sticker, no idling anywhere for over five minutes
 - 2008 and newer model-year diesel engines that meet the low NOx limit (30 g/hr.)
2. Even with a “Certified Clean Idle” sticker, special prohibition on idling within 100 feet of schools, residences, hotels, or other restricted areas for more than five minutes
3. Diesel-fueled auxiliary power systems (APS) also may not be operated for over five minutes within 100 feet of any restricted area





The Queuing Exception

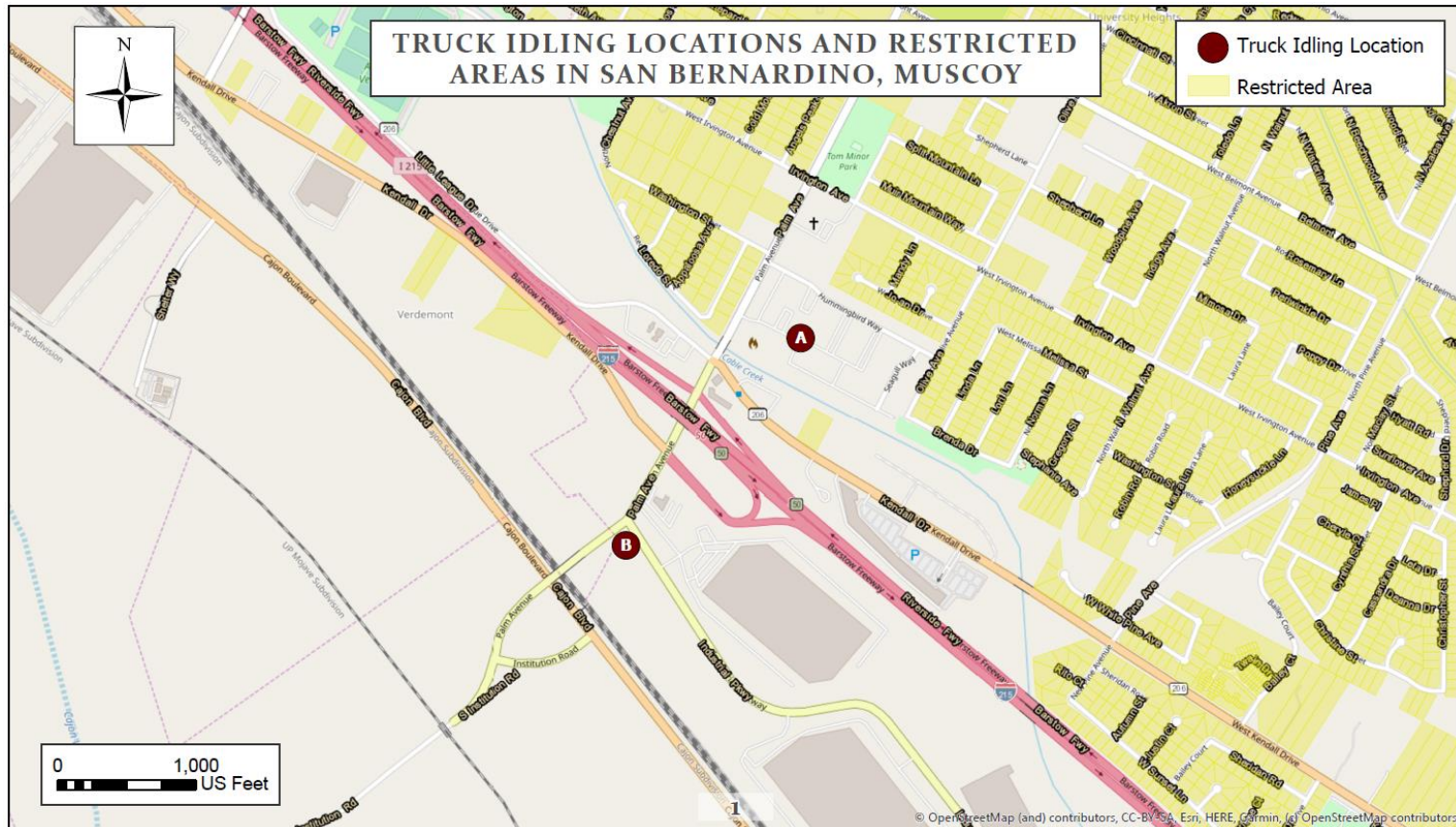
- “Queuing” refers to waiting to perform work in a line of vehicles that is repeatedly starting and stopping, when shutting off the vehicles’ engines is not possible
- Does not include waiting in line before the start of a workday or the opening of a work location
- Queuing vehicles must at all times be beyond 100 feet from any restricted area for this exception to apply

Upcoming Enforcement Efforts

- Quarterly idling truck sweeps, with follow-up enforcement actions
 - At locations identified by CSC and staff as having frequent idling
 - Some will be conducted by both CARB and South Coast AQMD
 - Inspection results and input from the community will determine next steps

Truck Idling Location Prioritization Activity

- 1) Provide location details (address, cross streets, facilities, etc.)
- 2) Provide time and day(s) of week
- 3) Add a ✓ next to your top 5 areas



Truck Idling Location Worksheet*

Example

Location	Location Details	Time(s) and Day(s) of Week	✓
Example	455 Tía Juana St N San Bernardino, CA 92411. Trucks regularly seen idling near Ruben Campos Community Center	Wednesdays and Fridays 7:00 AM to 9:00 AM	✓
A			
B			
C			

*Please submit worksheet by 5:00 pm, November 1, 2019 to ab617@aqmd.gov

To Report a Truck Idling Complaint

Call South Coast AQMD or CARB and provide the following information:

- Location of the incidence (address or nearest cross streets)
- Time of the incidence (when it was observed)
- Whether the incidence is still happening or not
- Whether the incidence is happening within 100 feet from a sensitive receptor (e.g., schools, daycares, hospital)
- License plate of the truck (if possible)

South Coast AQMD
1-800-CUT-SMOG

or

CARB
1-800-END-SMOG

Update on AB 617 Incentive Projects



Vicki White
Technology Implementation Manager
South Coast AQMD

Background - AB 134 (Year 1)

In 2017, Governor signed **AB 134**

- \$250M statewide for early actions to reduce emissions in disadvantaged and low-income communities
- \$107.5M allocated to South Coast AQMD (6.25% for administrative costs)
- Eligible projects are those submitted through Carl Moyer and Proposition 1B-Goods Movement Programs
- Liquidation deadline: June 30, 2021

South Coast AQMD has awarded all AB 134 funds to projects, now in various stages of deployment

Background - SB 856 (Year 2)

In 2018, Governor signed **SB 856**

- \$245M statewide to continue supporting the goals of AB 617
- \$85.57M allocated to South Coast AQMD (6.25% for administrative costs)
- Liquidation deadline: June 30, 2022

Mobile source projects submitted under this year's Carl Moyer Program may be considered for Year 2 incentives

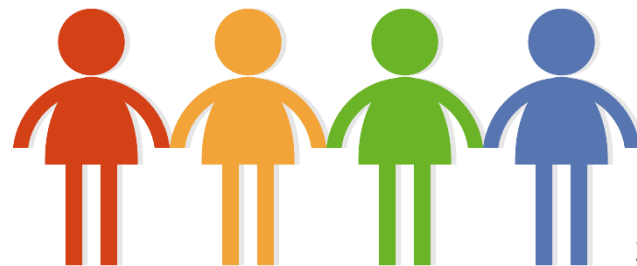
Funding requests far exceeded the amount of available funds

Priority given to projects domiciled or operated a majority of time in the AB 617 communities (either approved or under consideration for approval)

Enhanced Outreach

In addition to regular outreach for Carl Moyer Program, staff conducted additional outreach targeting sources in AB 617 communities:

- Program funding information/staff support at community steering meetings
- Coordination with Ports to notify all drayage truck owners/operators and terminal operators
- Emails to over 16,000 subscribers to Carl Moyer listserv
- Emails to warehouse facilities
- Enhanced outreach to ag communities
- Truck survey



Additional Opportunities in CERP Actions

Neighborhood Truck Traffic (Chapter 5b)



- Action 2:
 - Organize community incentive outreach event (e.g., incentive fair, workshop) each year and evaluate with community input
 - Target incentive funds for local small businesses and independent owner/operator (e.g., Voucher Incentive Program)
- Action 3:
 - Use existing traffic information and new technology to identify older trucks for incentives
 - Conduct targeted outreach to provide information on incentive programs



OmniTrans (Chapter 5d)

- Action 2 - Support OmniTrans' transition to zero-emission buses

Additional Opportunities in CERP Actions (continued)



Railyards (Chapter 5e)

- Action 1:
 - Work with the BNSF railyard through incentive programs to replace diesel-fueled equipment with cleaner technologies (i.e., locomotives)
 - Work with CARB to identify opportunities for new incentives



Schools, Childcare Centers, Community Centers, and Homes (Chapter 5g)

- Action 5 - Replace older school buses

Update on CAP Incentive Projects (San Bernardino, Muscoy Community)

Project Type	Technology	Year 1			Year 2 (Proposed)		
		# of Units	Awards	NOx Reduced (TPY)	# of Units	Funds Requested	NOx Reduced (TPY)
Heavy-duty Vehicles	Optional Low NOx	21	\$0.3M	0.6	-	-	-
Off-road Equipment	Tier 4 Engine	9	\$8.1M	55.3	2	\$0.5M	7.9
	Tier 3 Engine	3	\$0.8M	15.9	-	-	-
Total		33	\$9.1M	71.8	2	\$0.5M	7.9

Emission Reduction Benefits

(San Bernardino and Muscoy Community)

Pollutant	Expected Annual Emission Reduction (TPY)	
	Year 1	Year 2 (Proposed)
NOx	71.8	7.9
PM	0.9	0.4
ROG	1.6	0.7

Upcoming Funding Opportunities

Proposition 1B – Goods Movement Program:

- Program Announcement opened October 4
- Open until all funds are fully committed (or by 12/30/20)
- Funding for Class 5-8 heavy-duty trucks
- **Approximately \$30M available**
- Program Announcement now open
- Class 7/8 - \$200k for zero emission, \$100k for near-zero emission
- Considering a “plus-up” for small fleets



Upcoming Funding Opportunities

Volkswagen Mitigation Program:

Project Category	Technology	Total Allocation (millions)	1 st Installment (FY 2019-20)	Air District
Zero-Emission Transit, School and Shuttle Buses *	Battery electric or fuel cell	\$130	\$65	SJVAPCD
Zero-Emission Class 8 Freight and Port Drayage Trucks	Battery electric or fuel cell	\$90	\$27	SCAQMD
Zero-Emission Freight and Marine Projects (airport GSE, forklifts, port cargo handling equipment, shore power at port terminals)	Battery electric or fuel cell	\$70	\$35	BAAQMD
Combustion Freight and Marine Projects (waste haulers, dump trucks, concrete mixers, switcher locomotives, ferries, tug/tow boats)	Low NOx engine, Tier 4, or Tier 4 equivalent	\$60	\$30	SCAQMD
Light-Duty Zero-Emission Vehicle Infrastructure	Electric charger or hydrogen fueling station	\$10	\$10	BAAQMD
	Total:	\$360	\$167	

*Funds for the Zero-Emission Transit, School and Shuttle Bus category scheduled for release this month.

Upcoming Funding Opportunities

Carl Moyer Program:

- Annual Cycle
- 2019 Carl Moyer Program closed in June of this year
- 2020 Carl Moyer Program anticipate a total of \$40M available
- **New Program Announcement scheduled for release in March 2020, and will close in June 2020**
- On- and off-road heavy-duty vehicles/equipment and infrastructure for zero and near-zero emission technologies



Useful Links

Topics	Links
CAPP Incentives Web Page	http://www.aqmd.gov/cappincentives
Prop 1B Goods Movement Program Web Page	http://www.aqmd.gov/prop1b
Volkswagen Mitigation Web Page	http://www.aqmd.gov/vw
San Joaquin Valley APCD's Volkswagen Mitigation Web Page (Zero-Emission Transit, School and Shuttle Buses) – <i>Scheduled for Release in October 2019</i>	http://vwbusmoney.valleyair.org
Voucher Incentive Program (for small fleets of 10 trucks and less)	http://www.aqmd.gov/vip

Opportunities for Incentives Outreach in the Community

- Small fleets - Independent Owners and Operators:
 - South Coast AQMD looking into providing a “Plus-Up” to increase incentive amount for small fleets
 - Priority ranking for small fleets
- Incentives outreach events
- Build upon and/or improve existing outreach efforts (warehouses, commercial fleets, etc)
- Provide information on zero emission vehicles and availability of incentives



Comments or Questions?

- Please visit: www.aqmd.gov/cappincentives
 - At bottom of web page, click on “Comments or Questions”
- To receive updates on South Coast AQMD’s incentive funding programs, please visit: www.aqmd.gov
 - At bottom of web page, please sign up at “Newsletter Sign Up”
 - Check all programs you are interested in
 - Then click “Subscribe”





Updates on Community Air Monitoring in SBM

Payam Pakbin, PhD
Program Supervisor

Ongoing AB 617 Air Monitoring Activities

Fixed Monitoring

- San Bernardino Monitoring Station

Mobile Monitoring

- Wide-Area and Targeted Surveys
- Emission Source Characterization

Source Monitoring

- Cement Handling Facilities:
 - Robertson's Ready Mix
 - Vulcan Materials

AB 617 Community Air Monitoring Webpage:

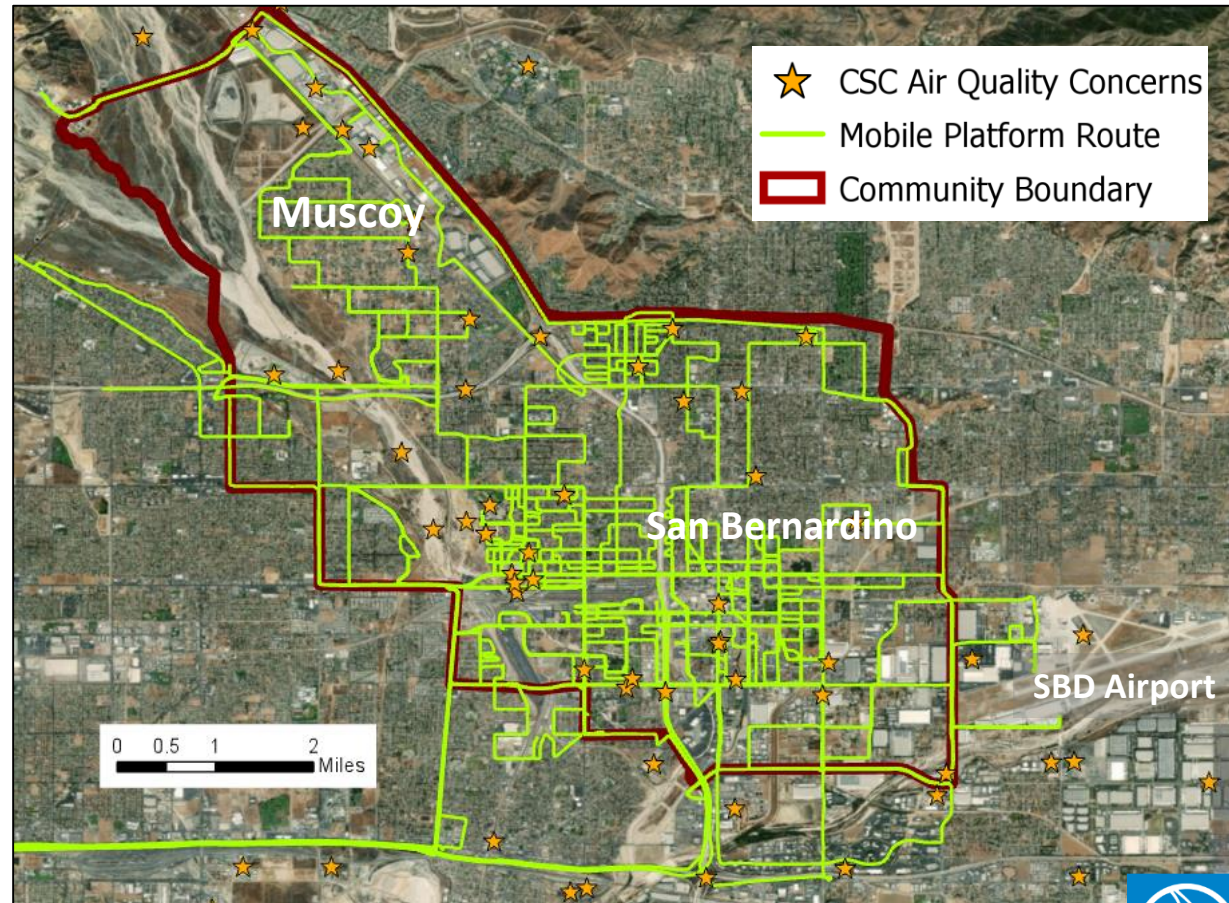
<http://www.aqmd.gov/nav/about/initiatives/community-efforts/environmental-justice/ab617-134/ab-617-community-air-monitoring>

Data Display Tool:

<http://xappprod.aqmd.gov/AB617CommunityAirMonitoring/Home/Index>

AB 617 Monitoring Update: Mobile Monitoring

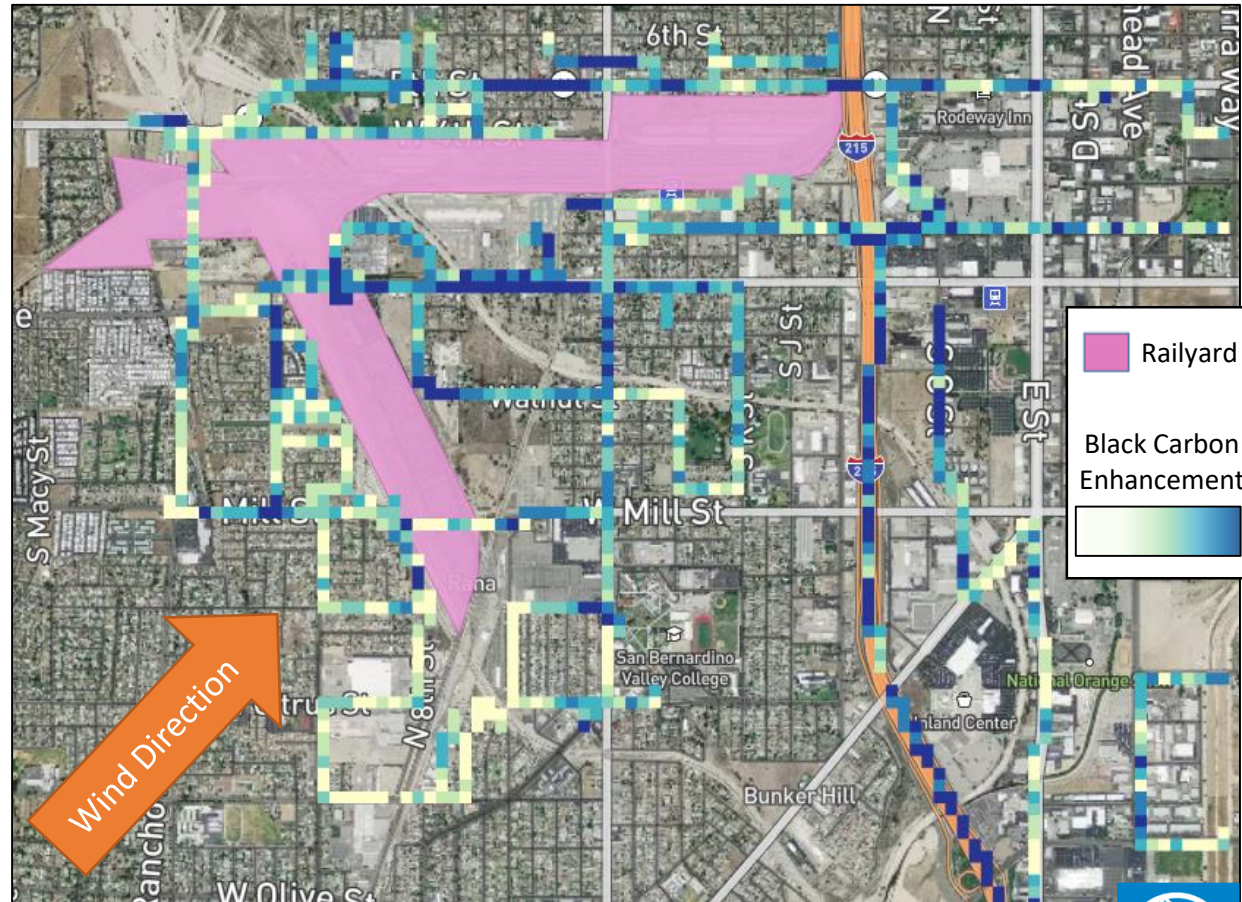
- 7 measurement days between 6/20/19 and 10/4/19 (9:00 am to 5:00 PM)
- Two mobile platforms were utilized
- All of CSC air quality concerns were surveyed (*data is being processed*)



Mobile Monitoring: BNSF Railyard

Purpose:

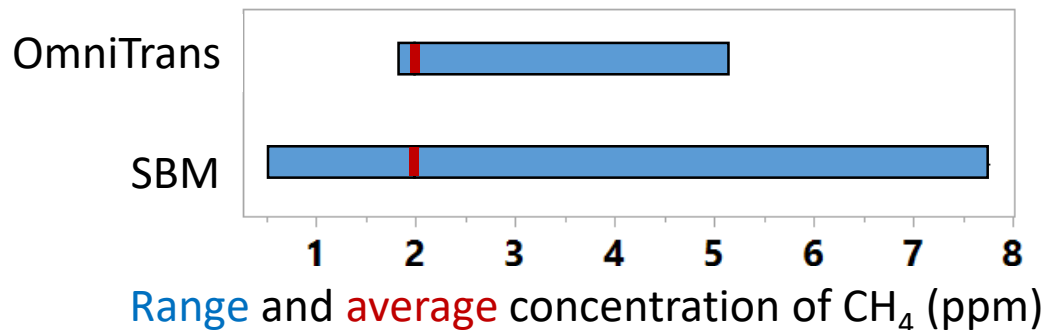
- Assess how railyard emissions may contribute to the overall air pollution burden
- Guide future monitoring activities
- 4 days of measurements in community areas near the BNSF railyard
- Elevated concentration were observed on the I-215 freeway, and near/downwind of the railyard boundary



Mobile Monitoring: OmniTrans

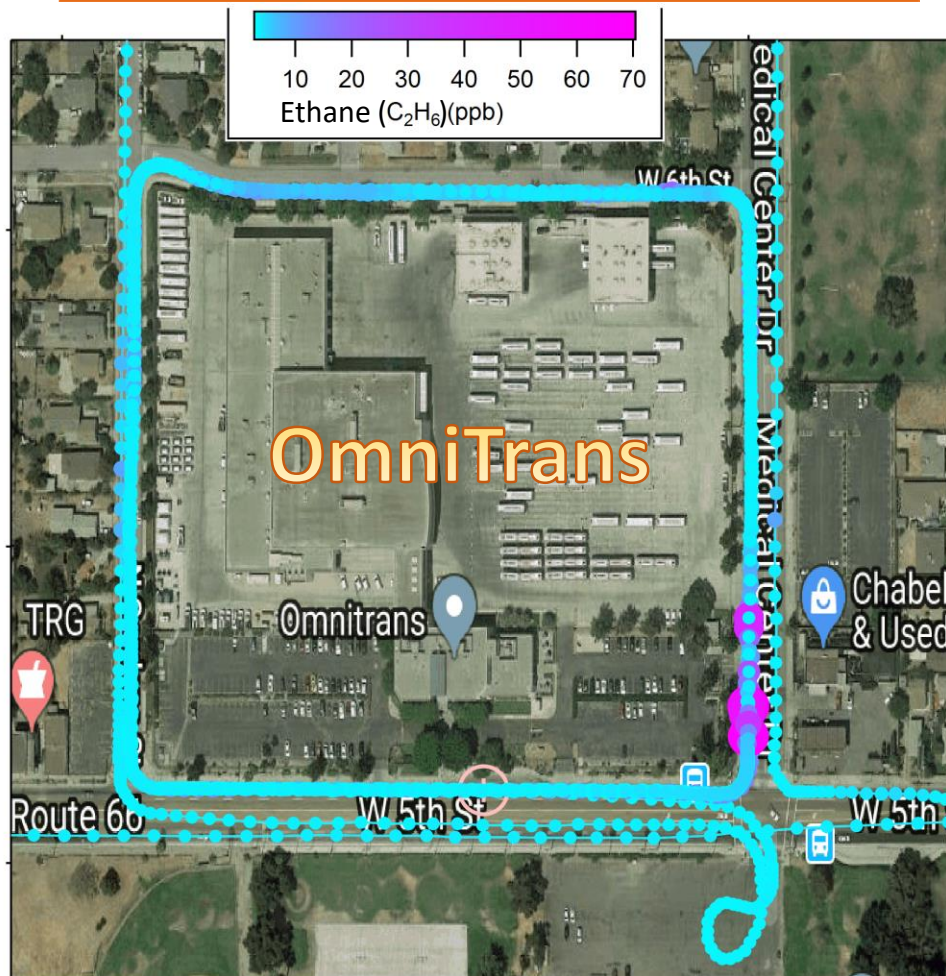
Mobile Platform #1 (South Coast AQMD)

- 4 days of measurements
- Methane (CH_4) used as a surrogate for natural gas emissions
- Higher methane concentrations were observed at the southeast corner of OmniTrans
- Average CH_4 concentration near the OmniTrans perimeter is within the typical ambient level (~2 ppm)



Mobile Monitoring: OmniTrans

Aerodyne Mobile Laboratory (AML)

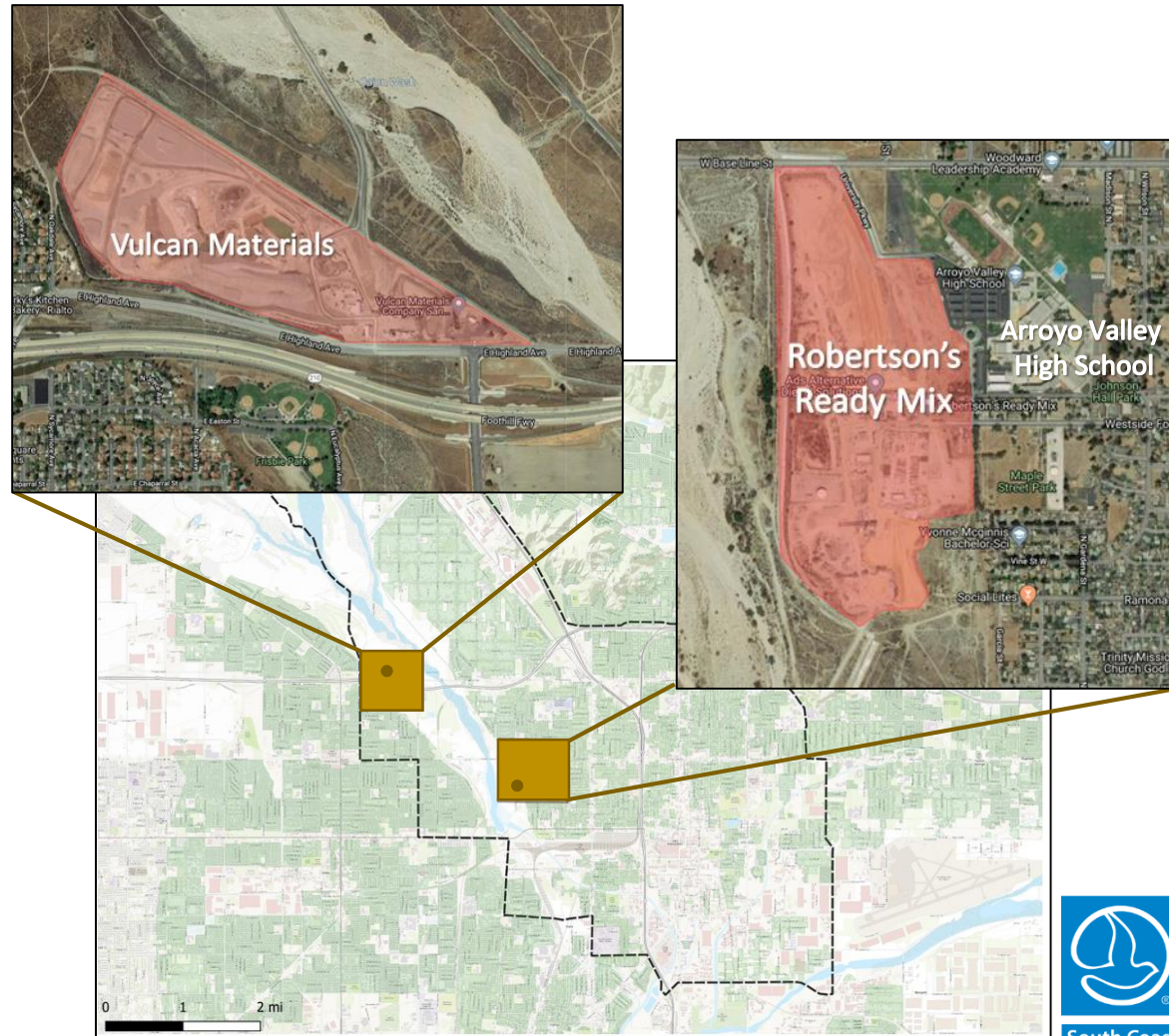


- Additional mobile measurements were conducted by Aerodyne (contractor)
- Emissions were localized to a source low on the ground (storm drain on southeast corner)
- Other minor emissions were detected on the north edge of the facility and from specific in-use buses on the road



Source monitoring: Cement Handling Facilities

- The CSC identified fugitive dust and particulate matter (PM) from cement handling facilities as potential community concerns
- Facilities that handle cement also have the potential to emit hexavalent chromium (Cr6+)



Air Monitoring Approach: Cement Handling Facilities



Mobile Measurements

- To guide site selection for fixed monitoring
- To assess community impact



Sample Collection for Cr6+ Analysis

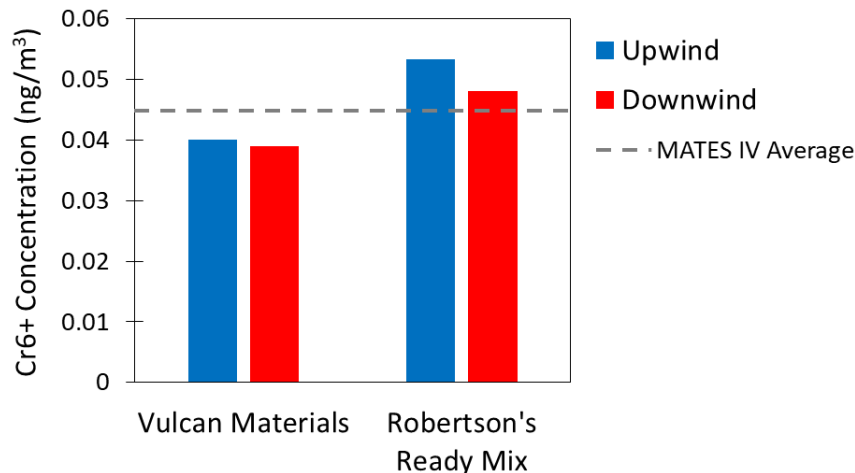
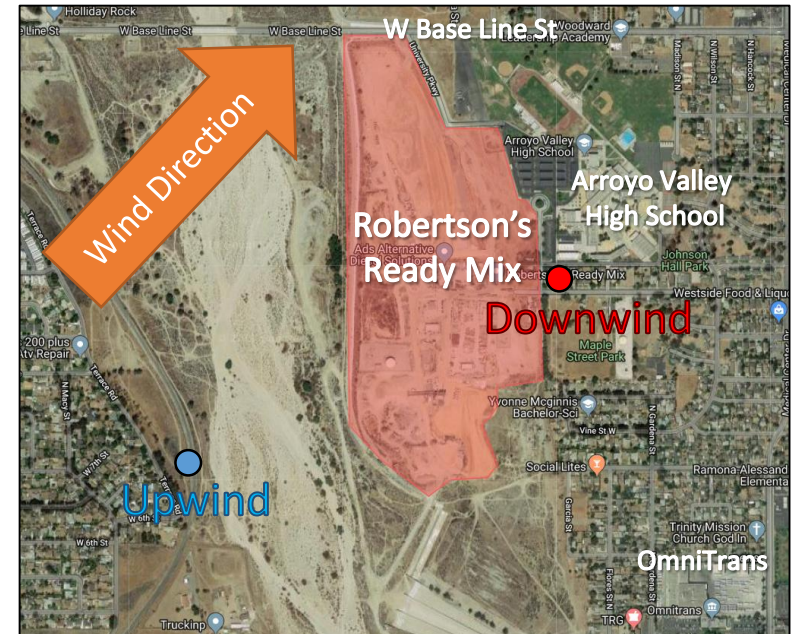
- To determine if the facilities are potential sources of Cr6+ (air toxic)



Fixed Monitoring for Fugitive Dust

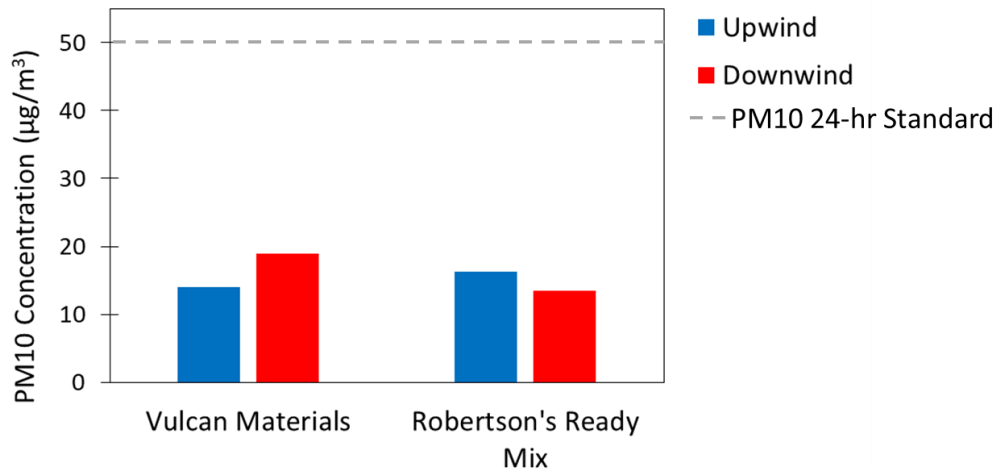
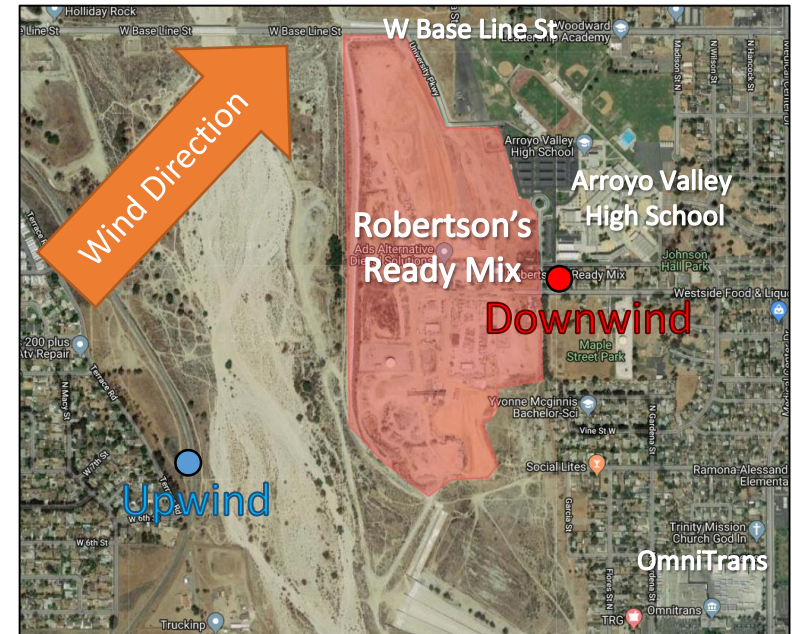
- To assess community impact from the two facilities

Source Monitoring: Hexavalent Chromium (Cr6+)



- Ten samples were collected and analyzed from each site
- Concentrations were at background levels for all samples

Source Monitoring: PM10 (Fugitive Dust)



- PM monitoring will continue To assess fugitive dust emission contribution from the two facilities



Questions & Discussion

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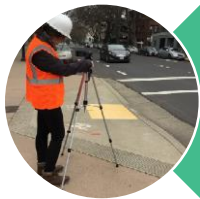
CERP Implementation

- CSC Meetings for CERP implementation will:
 - Be held **quarterly**
 - Include updates on enforcement, air monitoring, outreach, incentives, and rule development actions

Examples of Actions beginning in 2020



School prioritization and installation of air filtration systems



Prioritize locations for ALPR systems



Develop standard approaches for new warehouses

Examples of Actions beginning in 2020 (continued)



Hold a public outreach event on requirements for rules pertaining to concrete batch, asphalt batch and aggregate plants and the South Coast AQMD's complaint process



Provide updates on Omnitrans' progress towards transitioning to zero-emission buses



Develop Indirect Source Rule (ISR) on railyards

CSC Member Roster



- If you would like to continue as a CSC Member, complete an **Interest form** and check the “**Recommit**” box
- Please return the form to staff or send to AB617@aqmd.gov
- If you are no longer interested in being a CSC Member, please recommend someone in your community or organization who would like to participate

**Please submit your form by
November 1, 2019**

Next steps and important reminders

Future meeting date and location:

- Thursday, January 23, 2019 (6:00 p.m. – 8:30 p.m.) at Muscoy Job Corp Gym

Likely agenda items for CSC Quarterly Update meeting #1:

- Updates on:
 - Air monitoring
 - Warehouse ISR and outreach
 - Truck idling sweeps
 - Partnerships with:
 - Arrowhead Regional Medical Center and other community-based organizations (with asthma-related programs)
 - Safe Routes Partnership

Important Dates and Deadlines

- Submit CSC Interest forms by November 1, 2019

**Thank you
for the hard work!**

**More information on AB 617:
www.aqmd.gov/AB617**

Email: AB617@aqmd.gov

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