# Community Air Initiatives

### San Bernardino, Muscoy Community Steering Committee Meeting #5

Thursday, April 18, 2019 San Bernardino, CA



### **Committee Business**

- Finalize Roster
- Meeting Format and Length
  - Survey
- Suggestion Box
- Community Tour

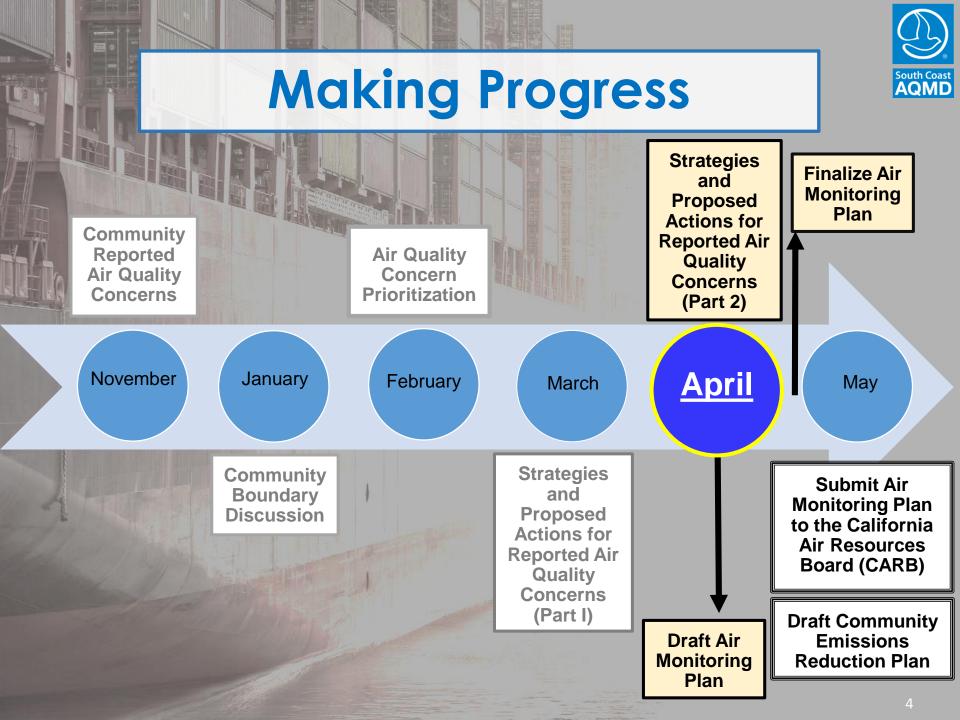




### **Committee Presenters**

- AB 617 is a collaborative effort
- Seeking volunteer Community Steering Committee (CSC) members to present
- Highlight efforts within the San Bernardino, Muscoy (SBM) community that could be part of the AB 617 Community Emission Reduction Plan (CERP)
- Who would you like to hear from?
  - Let us know!



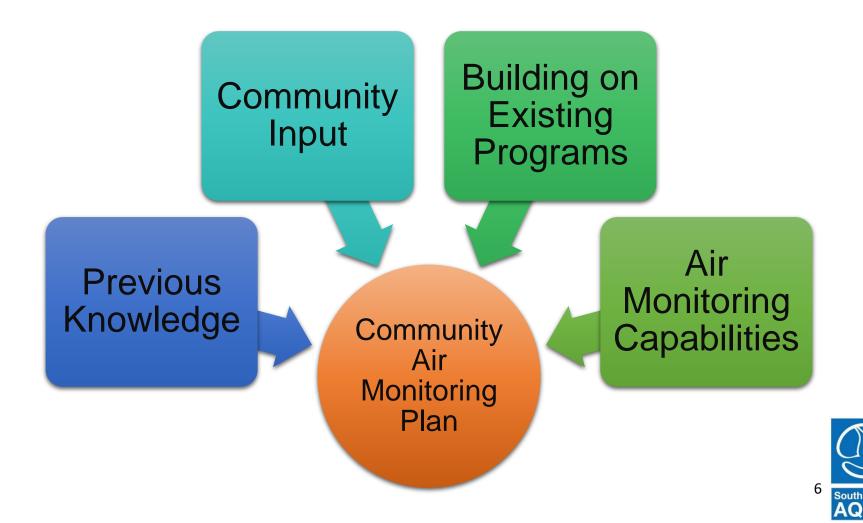


### Community Air Monitoring Plan South Coast AQMD

*Thursday, April 18, 2019 PAL Charter Academy* 

**Andrea Polidori, PhD** Atmospheric Measurements Manager South Coast Air Quality Management District

# Considerations for Community Air Monitoring Plan



# The Major Elements in the Community Air Monitoring Plan (CAMP)

**Background and CAMP Objectives** 

**Existing Monitoring Programs in the SBM Community** 

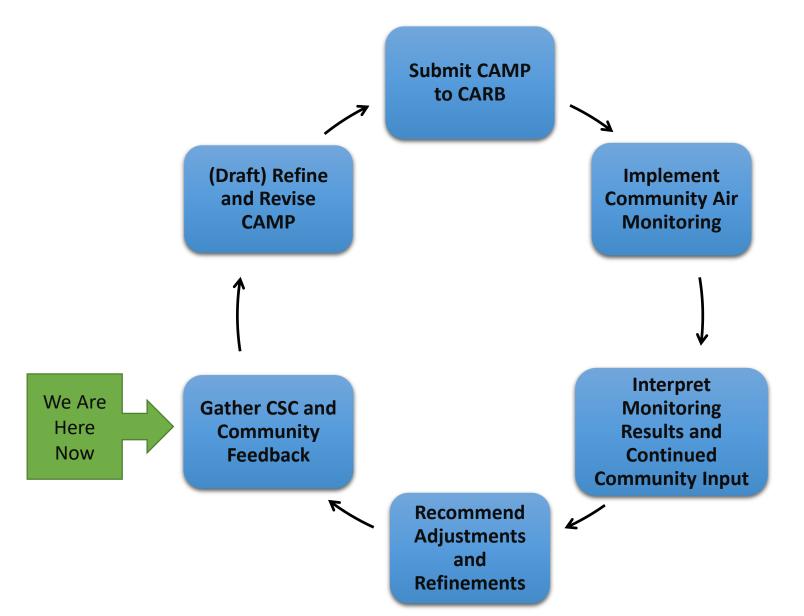
Air Quality Concerns, Pollutants of Interest, Monitoring Equipment, and Monitoring Methods

**Community Air Monitoring Approach** 

**Data Reporting** 

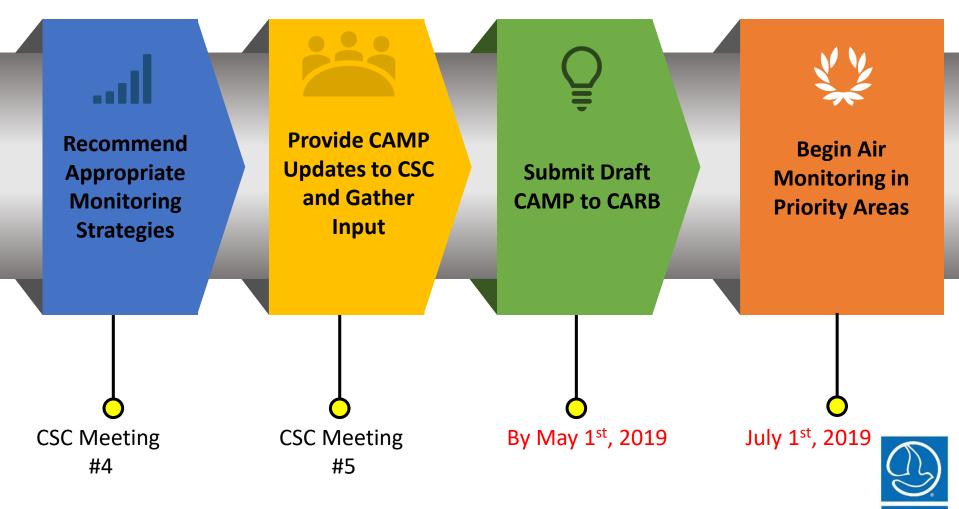


# **Ongoing CAMP Process**





# Working with the CSC Group



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# What are the sources of air pollution?

Apr 18, 2010 - May

South Coast

Apt 18, 2010 - May 18.

43.64% Normal

# Main air toxics in the SBM community

**Diesel particulate** has the highest impact in the community

- Other toxics may have impacts to areas, • if they are close to sources
- Emissions inventories do not include • unknown or unquantified leaks

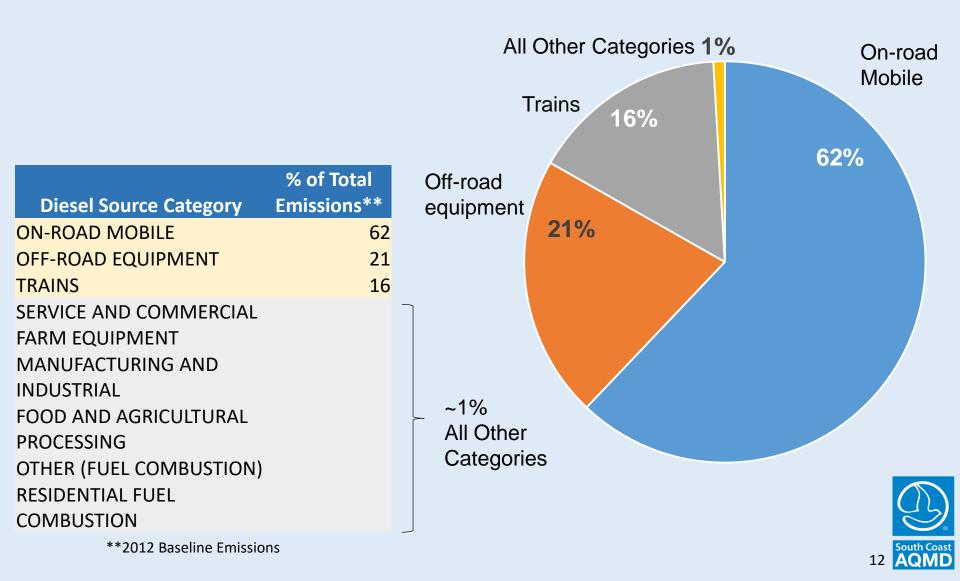
Formaldehyde, 1,3-1.06% butadiene, 3.05% Benzene, 3.58% Hexavalent chromium, 3.81%

Other, 2.92%

Diesel Particulate, 85.59%



# What are the sources of diesel particulates in the SBM community?



# What are the sources of Nitrogen Oxides (NOx) in the SBM community?

	% of Total	Electric com
NOx Source Category	Emissions**	utilities 2%
ON-ROAD MOBILE	76	Off-road
TRAINS	11	equipment
OFF-ROAD EQUIPMENT	8	8%
ELECTRIC UTILITIES	2	Trains
SERVICE AND COMMERCIAL	2	11%
RESIDENTIAL FUEL COMBUSTION	1	
MANUFACTURING AND INDUSTRIAL		
FARM EQUIPMENT		
OTHER (FUEL COMBUSTION)		
FOOD AND AGRICULTURAL		
PROCESSING		~1%
FIRES		Other
MANAGED BURNING AND DISPOSAL		Categories
OFF-ROAD RECREATIONAL VEHICLES		0
COGENERATIONetc.		

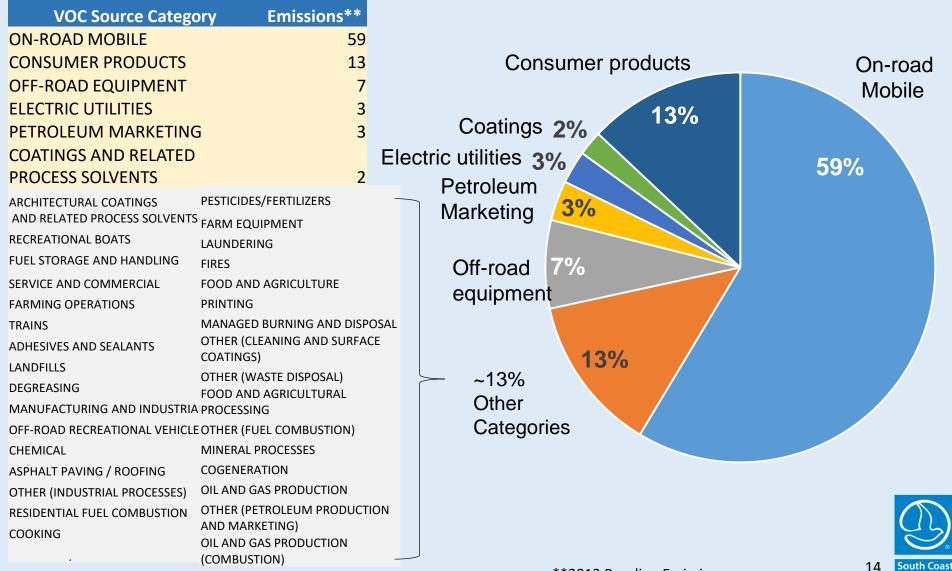
nmercial Residential fuel combustion 76% On-road mobile

Service and

\*\*2012 Baseline Emissions

### What are the sources of Volatile Organic Compounds (VOCs) in the SBM community?

% of Total



AQMD

# Initial Ideas for Actions in the Community Emissions Reduction Plan (CERP) and Community Air Monitoring Plan (CAMP) – PART II



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### Prioritized Air Quality Concerns in San Bernardino and Muscoy

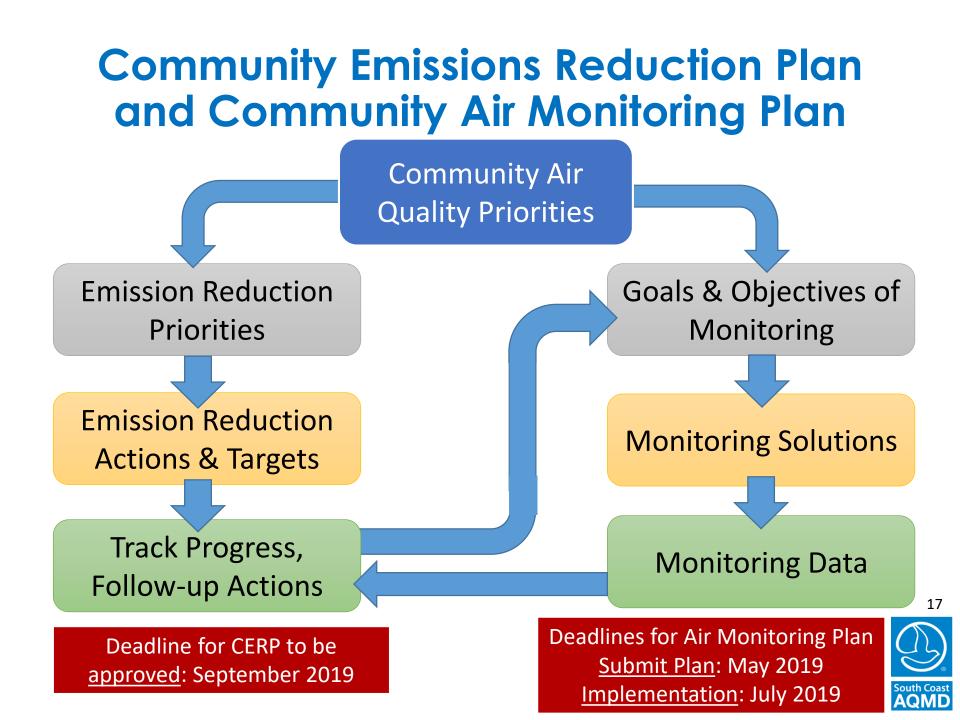
This committee has prioritized these air quality concerns in the San Bernardino and Muscoy community:

- Neighborhood Truck Traffic (including from/to warehouses)
- 2. Railyard
- 3. Warehouses (On-site Emissions)
- 4. Cement Batch Plants
- 5. Omnitrans Bus Yard
- 6. Schools, Hospitals, etc.

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Discussed
in Meeting #4
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Today, we will focus on discussing actions to address these priorities







### SBM Meeting #4 Brief Recap of Air Quality Concerns Discussion

### Neighborhood Truck Traffic

- Focused enforcement of designated truck routes and idling truck regulations
- Time specific anti-idling regulations (to address off-hour idling)
- On-site accountability to ensure trucks comply with idling
- Education, outreach, and/or training on truck idling and warehouses
- Incentivize or encourage Zero-Emission technology, where available

### **BNSF** Railyard Onsite

- Focused Particulate Matter (PM) and black carbon (BC) monitoring
- Rulemaking for railyards Facility Based Mobile Sources Measures (Indirect Source Rule (ISR)) and CARB regulations
- Incentives: Locomotive (switcher, line-haul), cargo handling equipment replacements



\* See meeting summary for more details

### Warehouse (On-site Emissions) Initial CERP and CAMP Ideas

#### Monitoring:

- Fenceline monitoring to characterize air pollution activities
- Identify impacted community areas nearby
- Data could support future
   enforcement action if necessary

#### Incentives:

- Electrify forklifts, transportation refrigeration units (TRUs) and other on site diesel-powered equipment, where applicable
- Charging and/or fueling infrastructure for on-site equipment

#### Collaboration

- Encourage buffer zones between warehouses and residents
- Encourage solar power generation
- Encourage warehouses to build loading docks away from residents' homes
- Infrastructure needs, collaboration with public utilities/Public Utilities Commission (PUC)/California Energy Commission (CEC) and local ordinances

#### **Rules, Regulations, and Agreements**

- Rulemaking for warehouses- Facility Based Mobile Sources Measures (Indirect Source Rule (ISR))
- CEQA Mitigation Fund



# **Cement Batch Plants**

#### **Initial CERP and CAMP Ideas**

#### Monitoring:

- Place hexavalent chrome monitors near cement manufacturers
- Add in PM10 monitoring
- Provide information for enforcement actions
- Support the CERP (e.g. track progress)
- Provide information for enforcement actions, when appropriate

#### **Enforcement:**

Focused enforcement of Rule 403 (Fugitive Dust)

#### Outreach:

- Fugitive dust outreach materials for community members
- Outreach to operators





# **Omnitrans Bus Yard**

### **Initial CERP and CAMP Ideas**



#### Monitoring:

- Fenceline monitoring to characterize emissions
- Identify impacted community nearby

#### **Enforcement:**

 Utilize the FLIR camera to identify sources of leaks; conduct targeted follow-up investigation

#### Outreach:

Odor identification outreach materials for community members

#### **Collaboration:**

Seek opportunities for minimizing emissions



# Schools, Hospitals, Parks, & Community Centers

**Initial CERP and CAMP Ideas** 

#### Monitoring:

- Look at air pollution levels at and near these places
- Track progress of the emission and exposure reduction programs
- Provide community education and engagement

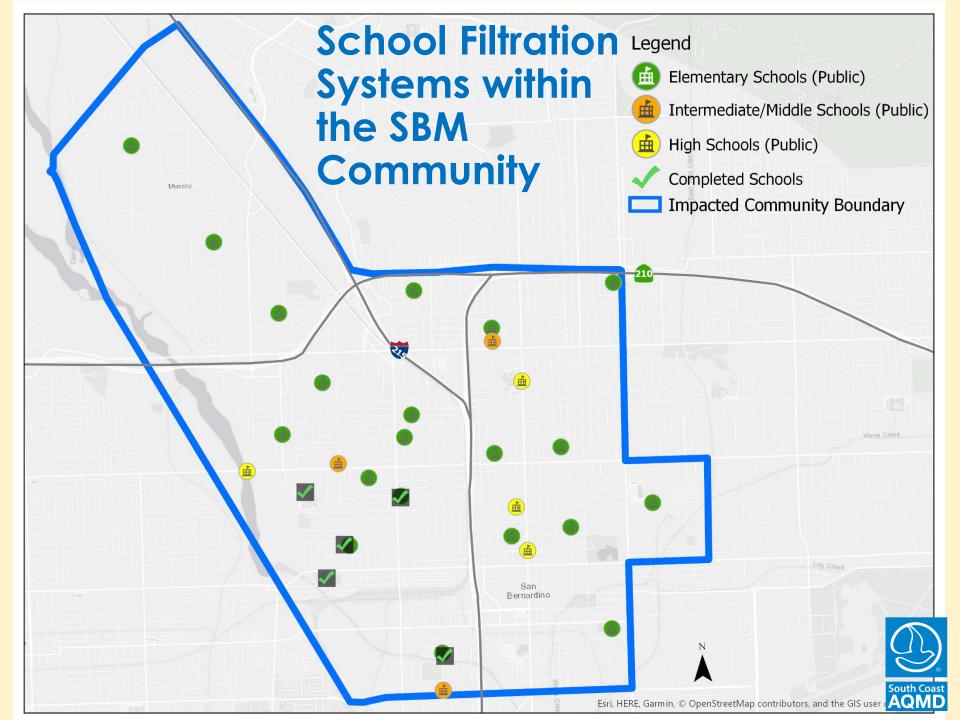
#### Incentives:

- Installation of air filtration systems at schools
- Upgrade or replace school buses

#### **Collaboration/Outreach:**

- Provide schools with information related to air quality advisories
  - Work with Department of Public Health and school districts to develop guidelines





# **Discussion Questions**

- 1. Which of the proposed actions in this air quality concern category are the highest priorities?
- 2. Does the proposed monitoring approach support other actions (e.g. enforcement, emission reductions)?
  - This is your opportunity to provide input to staff for the draft air monitoring plan.
- 3. What additional ideas do you have to address this air quality concern?
- 4. How would you prioritize schools (e.g. age group sensitive receptors, proximity to known emission sources, concentrations of pollutants/toxics, etc.)?
  - To which group would you give the highest priority and why: schools, community centers, hospitals, parks, etc.?



# Next steps and important reminders

### **Future meeting dates and locations:**

CSC Meeting #6: May 16, 2019 (6:00 p.m.-8:00 p.m.\*) at TBD
 \*Depending on CSC input, the meeting may be extended

### Likely agenda items for CSC Meeting #6:

- Committee presentations
  - San Bernardino County Department of Public Health
  - City of San Bernardino
- Developing goals for the CERP
- CARB Actions

### **Technical Advisory Group (TAG):**

**Primary Member** 

Ryan Sinclair (Loma Linda University)

Andreas Beyersdorf (California State University, San Bernardino)

Tammy Yamasaki (Southern California Edison)

Is the CSC okay with these topics?

Any additional topics?

Next TAG Meeting: Late Spring 2019

25

Thank you<br/>for the hard work!More information on AB 617:<br/>www.aqmd.gov/AB617

Email: AB617@aqmd.gov Follow us @SouthCoastAQMD f 💟 🗿

