

# Community Air Initiatives

## San Bernardino, Muscoy Community Steering Committee Meeting #3

*Thursday, February 21<sup>st</sup>, 2019  
Muscoy, CA*



A spiral-bound notebook with a white cover and lined pages. The word "Compliance" is written in cursive at the top. Below it is a checklist with four items, each with a checked box. A red and black pen lies diagonally across the bottom of the notebook. A white box with a black border is overlaid on the center of the notebook, containing the title text.

# The Office of Compliance and Enforcement

# Air Quality Inspectors

Approximately **80 inspectors**,  
plus managers/supervisors and support staff



# Enforcement Activities

**Complaint Response** –  
over 9,000 complaints  
annually

**Facility inspections** –  
approx. 22,000 facilities  
& over 67,000 permits

**Portable equipment  
inspections** (3,600+)

**Responding to  
notifications**, such as  
for equipment  
breakdowns, flaring  
events, and  
renovations/demolitions

**Source education &  
outreach**

**Special projects** –  
investigations,  
interagency coordination,  
emergency response,  
etc.

**Enforcement Action** –  
Notices to Comply,  
Notices of Violation,  
Orders for Abatement,  
Criminal Referrals

# Outside of SCAQMD Jurisdiction

- Noise Complaints
- Indoor Air Quality Issues
- Private Residences, with exceptions such as wood burning on no-burn days
- Soil/Water Issues – also with limited exceptions

# Public Complaints



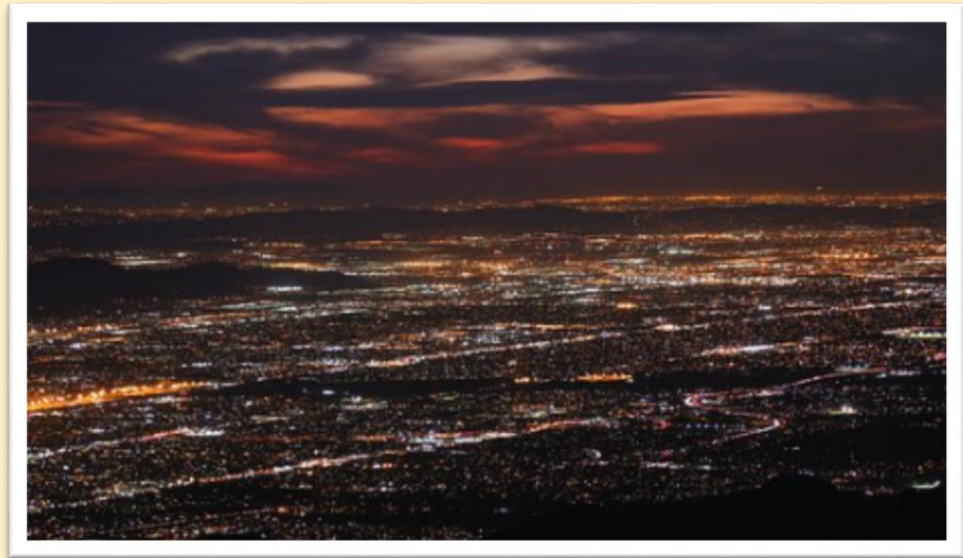
- **1-800-CUT-SMOG** or online @ [www.aqmd.gov](http://www.aqmd.gov).
- Live attendant during business hours (Monday-Friday) or to our standby system off-hours
- Common Complaints: Dust, Odors, Flaring, Smoke, Retail Gas Stations, Overspray, Residential Wood Burning
- Complainant information = confidential
- Complaints can be made anonymously, but may be insufficient and will not receive a live response
- ***INSPECTORS RESPOND TO ALL COMPLAINTS!***



# This Community – San Bernardino, Muscoy

You have identified many different sources of air pollution. Those include, among others, the following:

1. Idling Trucks and Warehouses;
2. Dust Concerns;
3. Railyards/Train Stations;
4. Waste Management Sites;  
and
5. Auto Body Shops





# Questions from the Committee?



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# Strategies to Address Air Pollution Concerns



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# Potential approaches

## Emission Reduction Strategies

- Regulation
- Incentives
- Enforcement
- Outreach and education
- Collaborations

## Other Complementary Tools

- Exposure reduction
- Monitoring
- Public information
- Collaborations

**Emission reduction:** Decrease in the amount of pollutants discharged from a specific source (e.g. a stack or tailpipe)



**Exposure reduction:** Decrease in the amount of pollutants that people inhale



# Regulation

**Regulations (Rules) are like local laws that specify what facilities and equipment owners are required to do**

## Examples:

- Rule 1430 (Metal grinding)
- Rule 1469 (Chrome plating and anodizing)
- Rule 1132 (Spray booths)

## Pros:

- Applies to all facilities/equipment of that type in our District
- Permanent emissions reductions
- Enforceable

## Cons:

- Lengthy process



**Note:** Rules need to be approved by the SCAQMD Board

# Incentives

To encourage equipment owner to use cleaner technologies, above and beyond what's required

## Examples:

- Carl Moyer program
- Lawn & garden equipment program
- Lower-Emission School Bus Incentive Program
- Replace combustion-based appliances with high efficiency electric models

## Pros:

- Get equipment that is cleaner than what regulation requires
- Relatively fast
- Can be tuned to benefit local community

## Cons:

- Expensive

Zero Emission Transit Bus



Zero Emission Mower



Zero Emission Chainsaw



Zero Emission School Bus

# Outreach and Education

**Engage stakeholders who can help reduce emissions**

## Examples:

- **Clean Communities Plan:** Outreach to auto-body shops to adopt water-based brake cleaners (incentives)
- Outreach to specific fleet owners about incentives they can use
- Educate business owners on how to comply with our regulations
- Community workshops on clean air vehicles
- High school electric vehicle showcase

## Pros:

- Enhances compliance with existing rules, or can go beyond existing rules
- Relatively fast and low cost (other than incentives)

## Cons:

- Need appropriate incentive funding



Please join the South Coast Air Quality Management District (SCAQMD) and Assemblymember Sabrina Cervantes to discuss air quality and programs available to the community.



# Enforcement

**Targeted enforcement to address a specific air quality concern**

## Examples:

- Oil tanker leak investigations
- Idling truck sweeps
- Complaint cluster projects

## Pros:

- Promotes compliance with rules
- Identifies violations → corrective actions

## Cons:

- Only applies to existing rules and permit conditions
- Can be expensive and time-intensive



# Monitoring

Can serve many purposes:

- Identify hot spots, to focus investigations
- Provides public information
- Tracks progress
- Tool for compliance

## Examples:

- Mobile surveys to identify facility leaks
- Metals monitoring to identify sources of metals
- Refinery fenceline and community monitoring

## Pros/Cons:

- See Meeting #2, slide 36



# Additional strategies

## Pros

## Cons



### Exposure reduction, other mitigation

- Air filtration systems (schools, community centers)
- Tree barriers, buffers

Better indoor air quality,  
More green space

No emission reductions



### Public information

- Notification systems
- Easier access to facility reports (e.g. leak inspection reports)

Increase access to data, which can guide individual action to reduce exposure

No emission reductions



### Collaboration with other stakeholders

- Truck routes
- Multiple environmental media (air, water, hazardous waste)

Leverage different agencies' strengths

Can be a lengthy process



# Combined strategies

## Example 1 – Warehouse related truck traffic

**Enforcement  
sweeps**



**License plates  
readers**



**Targeted  
incentives**



**Local  
ordinances  
for  
neighborhood  
truck routes**

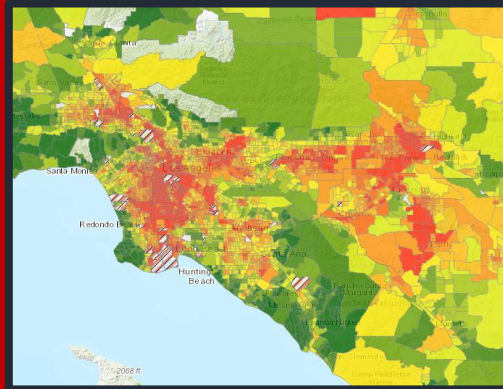


**Rule  
development**

# Combined strategies

## Example 2 - Schools

**Prioritize by  
air quality  
factors  
and other  
factors**



**Air filtration  
(exposure  
reduction)**



**Cleaner  
school  
buses  
(incentives)**



**Nearby facilities  
-  
Targeted  
inspections**



# Air Pollution Emissions Data from emissions inventory



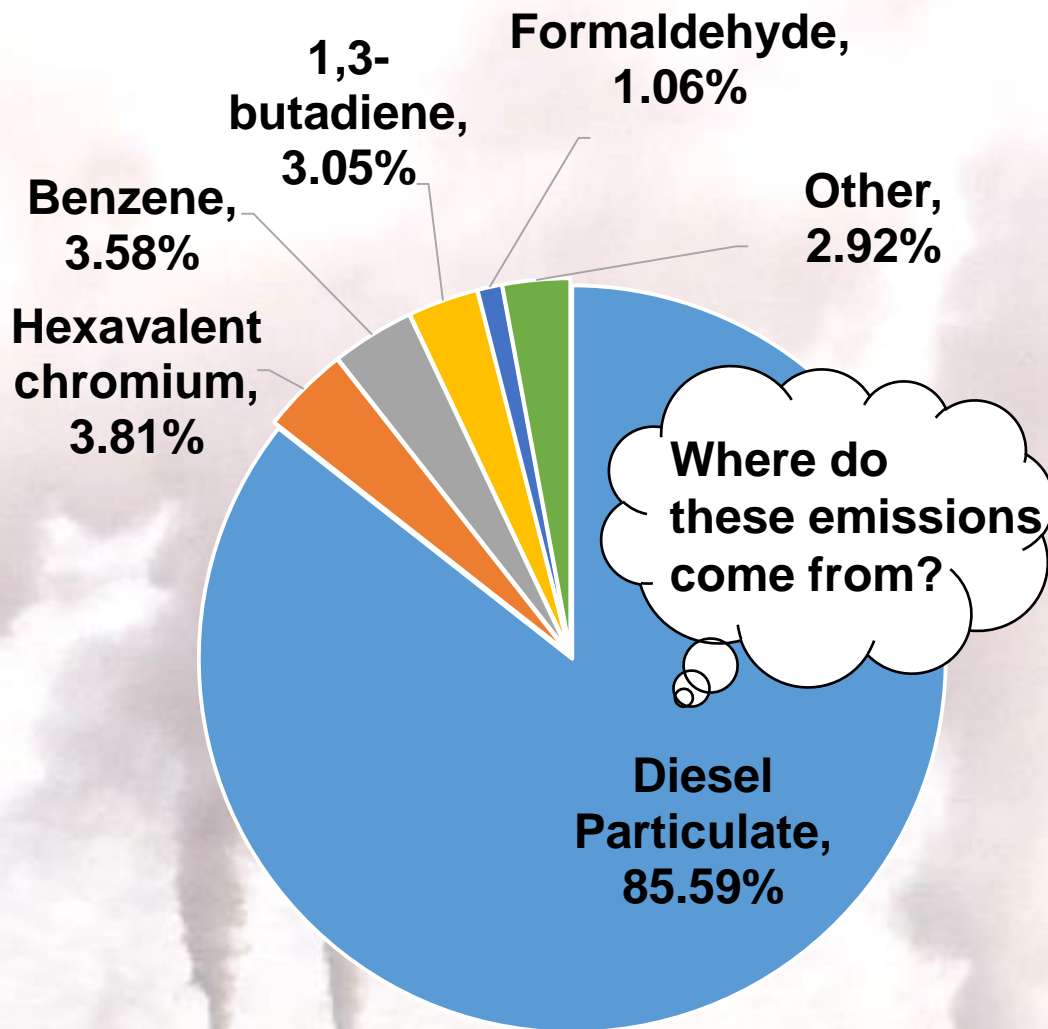
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# Main air toxics in the community

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

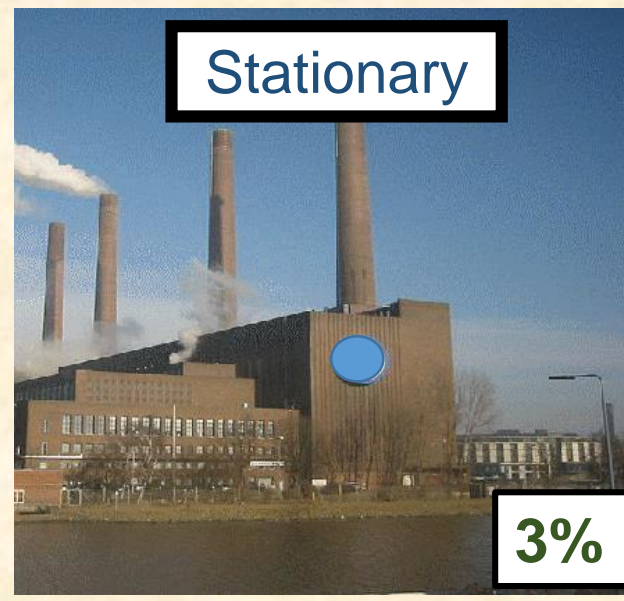
Other toxics may have impacts in areas close to the sources

- Emissions inventories don't account for **unknown or unquantified leaks**.


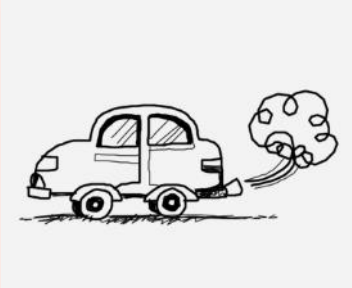


Data from the Multiple Air Toxics Exposure Study (MATES) IV (2012)

# Source categories



# Other major pollutants in this community

Pollutants	Main sources
<p data-bbox="112 501 795 615">Volatile Organic Compounds (VOCs)</p>  <p>The image shows two items: on the left, a silver paint can with a green-handled brush resting against it, containing yellow paint; on the right, a vintage red gas pump with a 'GAS' sign on top and 'REGULAR' and 'ESTACOM' labels on the front.</p>	<ul data-bbox="987 558 1657 908" style="list-style-type: none"><li>• Petroleum production and marketing</li><li>• Industrial sources</li><li>• Solvent evaporation</li><li>• Coatings</li></ul>
<p data-bbox="112 993 658 1048">Nitrogen Oxides (NO<sub>x</sub>)</p>  <p>The image is a simple line drawing of a vintage car from the rear, with a cloud of exhaust coming out of the tailpipe.</p>	<ul data-bbox="987 1153 1723 1200" style="list-style-type: none"><li>• Mainly from fuel combustion</li></ul>

# Community Boundary and Prioritization of Air Quality Concerns



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# Prioritization – why we need to do this

We want to use resources appropriately  
to address the air pollution issues most important to this community

- Goal:
  - Evaluate **highest priorities** from the community
  - Use existing technical data to help guide priorities
  - Start thinking about potential strategies to put into the **emission reduction plan**
- Limited resources (money) and limited time
  - We will try to address the top few priorities
  - General expectation is that the plans should be fully implemented  
~5 years



# SCAQMD Efforts and Funding

These are the estimated costs in the first year, for everything other than incentives. This includes all three Year 1 communities, plus additional resources needed to support future AB 617 designated communities in the SCAQMD.

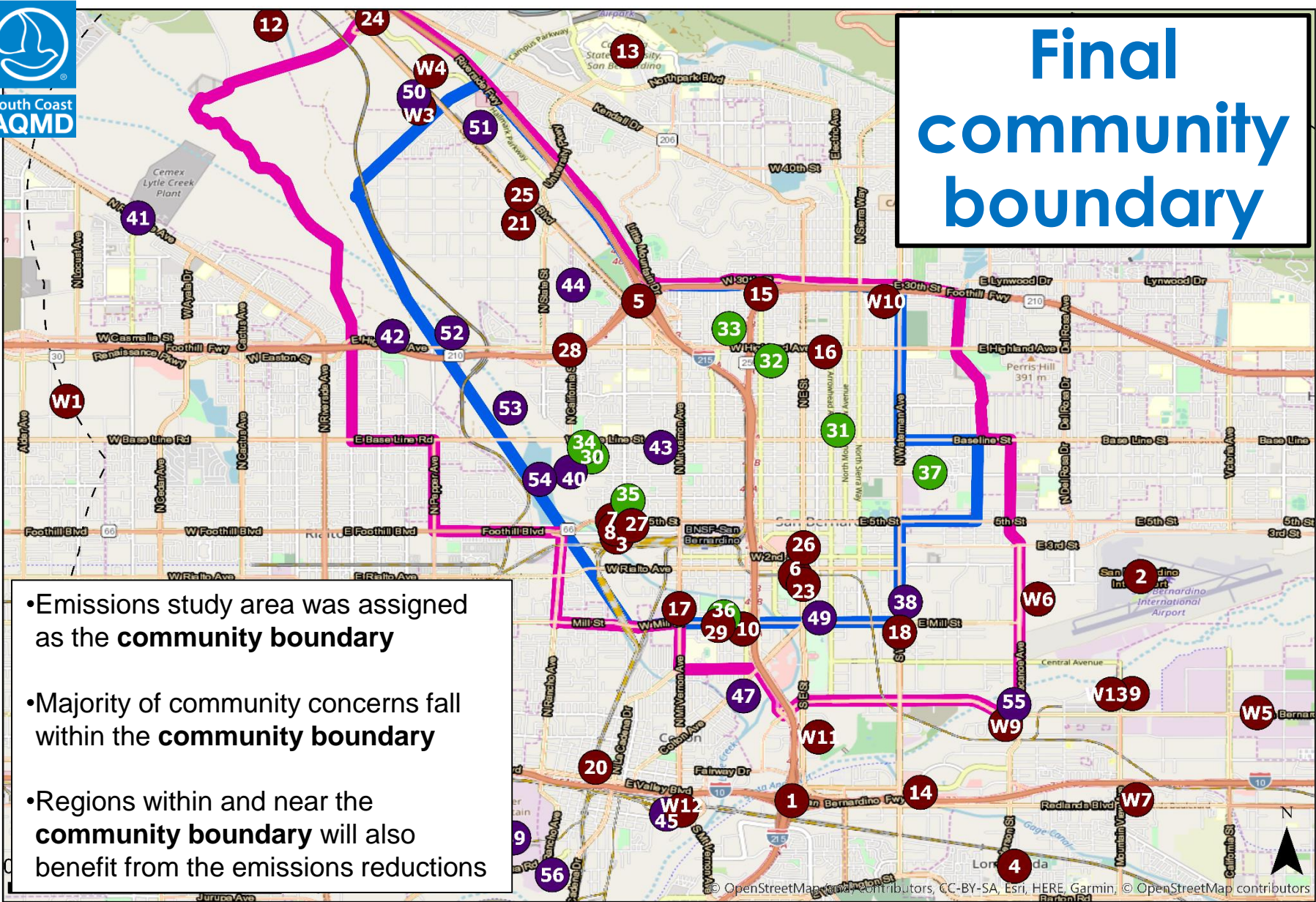
Program Component	Description	Estimated Amount
Air Monitoring	<ul style="list-style-type: none"><li>Equipment, staffing, and software to conduct air monitoring and display data</li></ul>	\$11.5 million
Community Emissions Reduction Plans	<ul style="list-style-type: none"><li>Staffing to develop and implement community emission reduction plans</li></ul>	\$4.3 million
Community Engagement	<ul style="list-style-type: none"><li>Staffing and materials to work with communities to implement AB 617.</li></ul>	\$1.6 million
BARCT	<ul style="list-style-type: none"><li>Staffing to transition RECLAIM program to command and control (rule development, CEQA)</li></ul>	\$8.5 million
Emissions Reporting	<ul style="list-style-type: none"><li>Staffing and software enhancements to implement CARB emissions reporting rule</li></ul>	\$1.8 million
<b>TOTAL</b>		<b>Estimated need: \$27.7 million</b>

**But we only received \$20 million**



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# Final community boundary



- Emissions study area was assigned as the **community boundary**
- Majority of community concerns fall within the **community boundary**
- Regions within and near the **community boundary** will also benefit from the emissions reductions

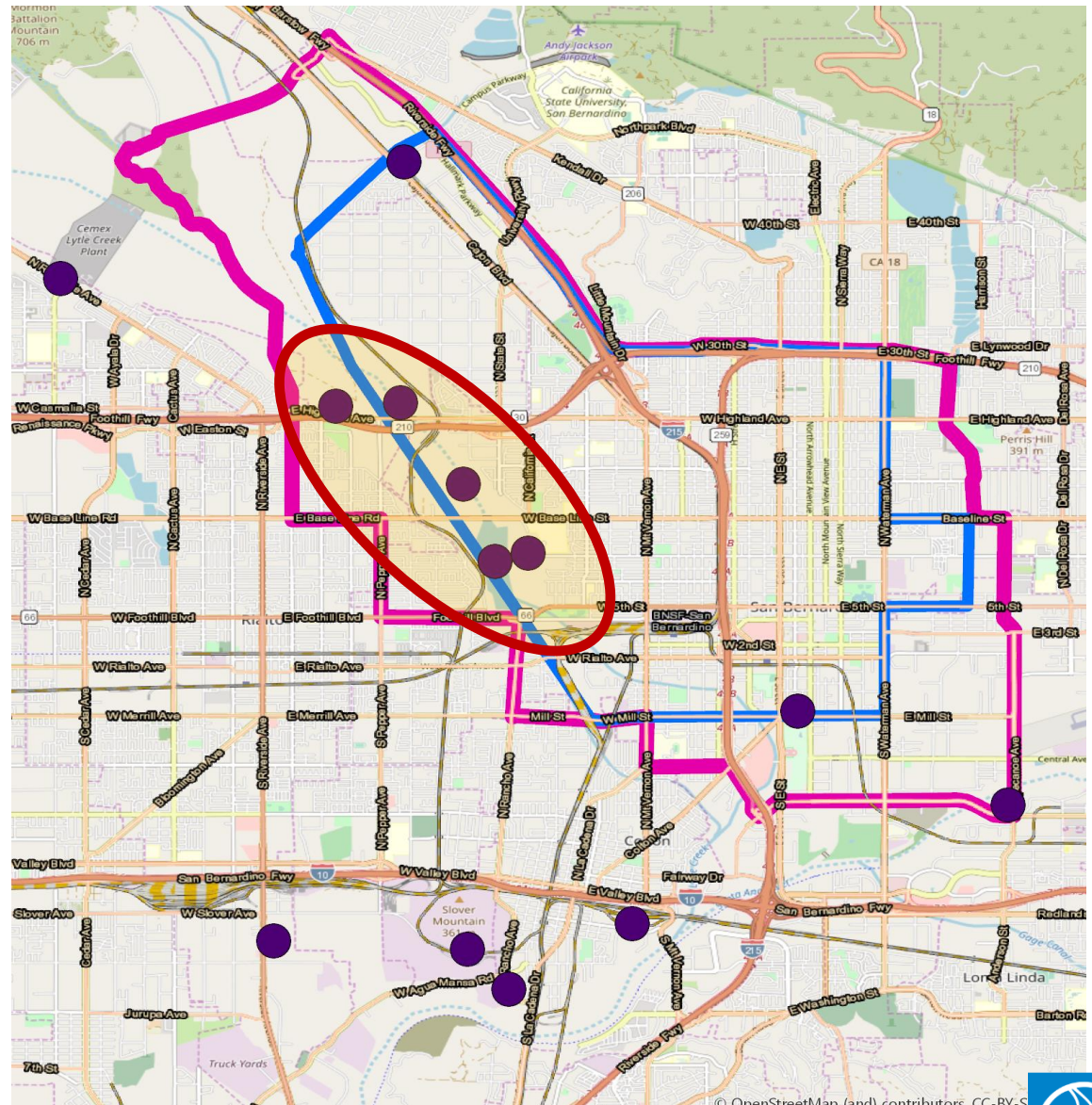
▭ Community  
▭ Impacted Area  
▭ Emissions Study Area

● Mobile Source    
 ● Stationary Source    
 ● Where people spend time

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# Concerns About Stationary Sources\*

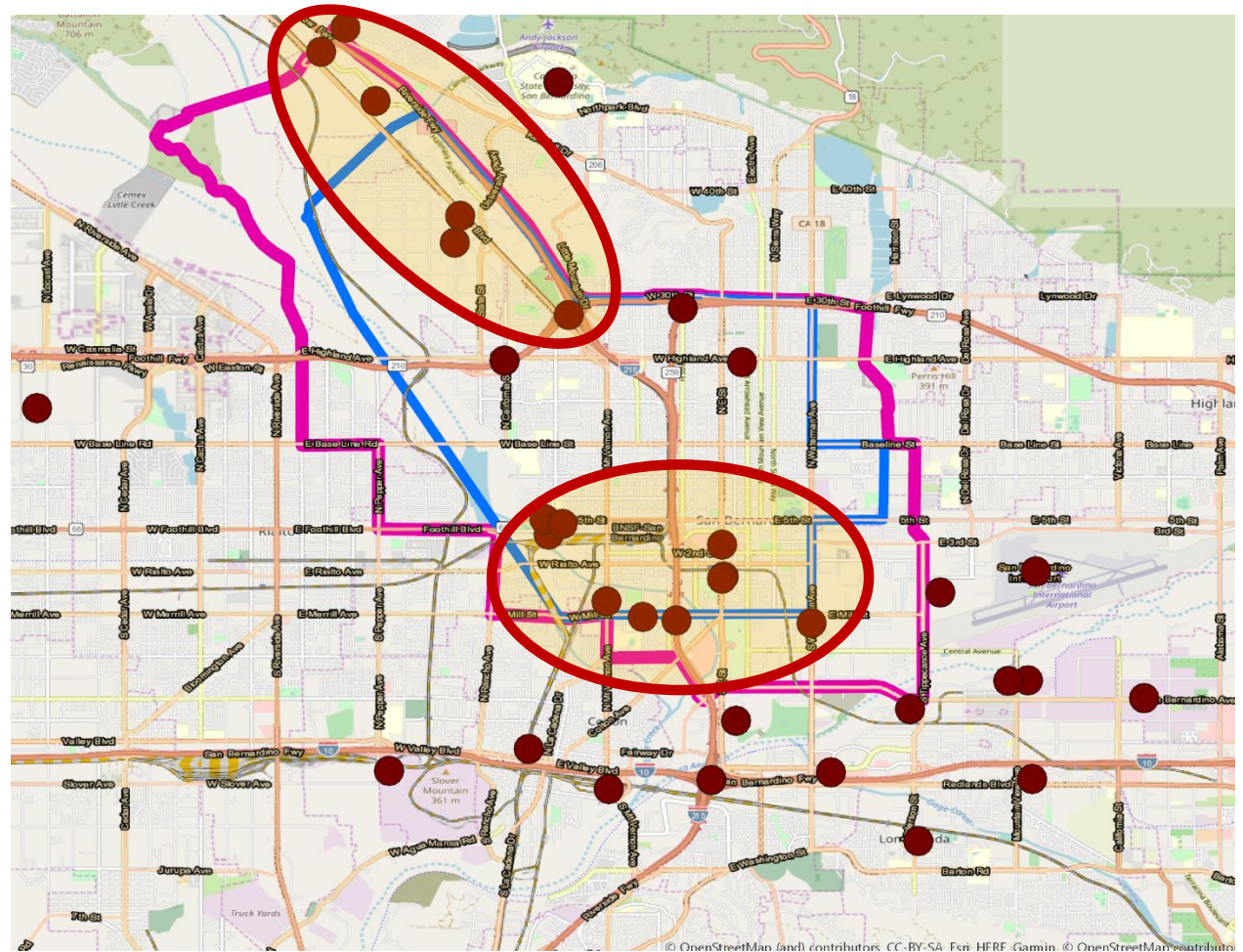
- These are locations that came up several times (yellow/red) in the air quality mapping activity
- Places where we may look to begin **monitoring efforts**



\*From CSC Meeting #1 air quality mapping activity

# Concerns About Mobile Sources\*

- Places where we may begin to look for truck idling hot spots for **compliance idling sweeps**
- Targeted areas for **license plate readers and incentives**



Major truck routes were identified (e.g. where warehouse trucks travel through the community)

\*From CSC Meeting #1 air quality mapping activity

# Prioritization – Group activity

30 min	Prioritization of Air Quality Concerns
15 min	Activity Report Back
5 min	Break
10 min	Activity Consensus Results Discussion

- The goal of this activity is to identify the few **highest priority areas**, so we can start developing specific strategies to address them
- **Allow enough time for everyone to speak**
- **Be respectful**
- There will be one facilitator and one note taker per table

## Priorities

①

②

③

**3 items per section**

# Next steps and important reminders

## Future meeting dates and locations:

- CSC Meeting #4: March 21<sup>st</sup> (6:00 p.m.- 8:00 p.m.) at San Bernardino Valley College

## Future meeting potential topics:

- Measures to be taken (i.e. what specific actions we want to do to address the highest priority concerns)
- RECLAIM – Best Available Retrofit Control Technology (BARCT) Rule development update
- Indirect Source Rule (ISR) development update
  - Rules to control mobile source emissions at warehouses, railyards, etc.

# Next steps and important reminders

## Technical Advisory Group (TAG):

- First TAG meeting has been scheduled for February 27<sup>th</sup>, 2019 (9:00 – 11:00 a.m.) at SCAQMD headquarters

- Please **send us your biographies** as soon as possible
- Sign the charter** – hard copies are provided at registration

**Thank you  
for the hard work!**

**More information on AB 617:**

**[www.aqmd.gov/AB617](http://www.aqmd.gov/AB617)**

**Email: [AB617@aqmd.gov](mailto:AB617@aqmd.gov)**

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