



West Oakland  
Environmental  
Indicators  
Project

# WOCAP Steering Committee – data dashboards

April 1, 2026

# Content

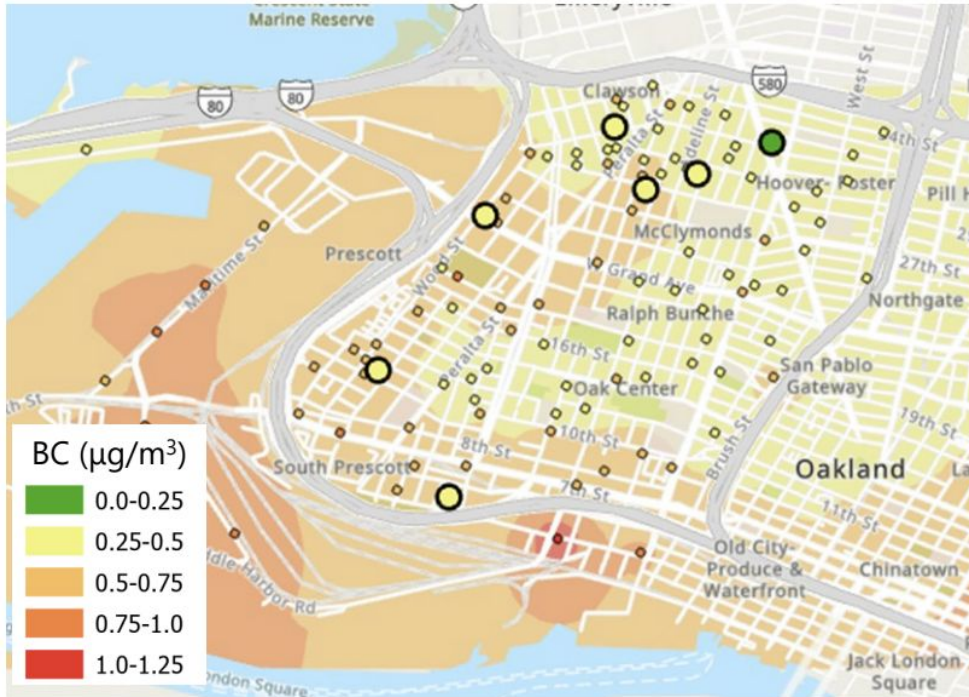
- 1 Welcome
- 2 Roll Call
- 3 March Recap - Black Carbon/WOAAQ
- 4 Data and Stories
- 5 Open forum



# March Meeting - Public

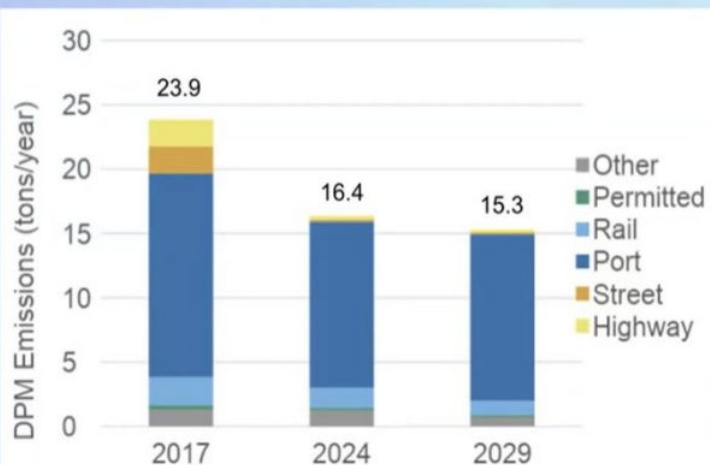
# Black carbon measurements – 2024, 2025

*Case study: comparison to 2017 measurements*



- 2017 Measurements (May-Aug)
  - Points are measurements, gradient is inverse distance weighted concentrations
- 2024 and 2025 Measurements (June-August)
  - Lower concentrations than in 2017 at all sites
  - Modest gradient within West Oakland similar to 2017

# Bay Area AQMD modeling predicts similar 31% decrease in diesel PM emissions



- DPM emissions decreased by 31% (7.5 tons) between 2017 and 2024
- The largest decreases were for diesel trucks (3.9 tons) and harbor craft (2.3 tons)
- Additional reductions for 2029 largely offset by forecasted growth
- Updated DPM emissions for 2024 are 13% lower than WOCAP projections (18.8 tons)

Measurements: **-46%**

Modeling: **-31%**

- On-road vehicles
  - New CA regulations for vehicles
- Port
  - 13 new tugboats
  - 16 cranes updated to hybrid
  - 30 hydrogen trucks
  - 102 electric heavy duty truck chargers

59

AB617 Steering Committee Meeting overview, Sept 4, 2024.

# **Story Map – West Oakland Data**

# West Oakland Community Action Plan (WOCAP) StoryMap

Prepared for West Oakland Environmental Indicators Project (WOEIP)

April 1, 2026

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# StoryMaps

Environmental Systems Research Institute's (ESRI) ArcGIS StoryMaps are interactive, web-based multimedia narratives that combine interactive maps, text, images, links, and more, to communicate geographic-based information in a visually pleasing and public-friendly medium. Creators can tailor a StoryMap to follow a chronological detailing of events supported by multimedia content, such as interactive figures and tables.

Outcome: easily-understood results from the study with high-level takeaways.

# Examples

- [Nationwide public-friendly air quality StoryMap](#)
- [Community public-friendly local air quality StoryMap](#) (Del Amo in SoCAL)
- [Interactive map with data from studies](#)

# Outline of StoryMap

- Introduction
  - Background and historical context
  - Current air pollution sources
  - Air quality improvement progress (AB617)
  - Monitoring goals
- Black carbon (BC) monitoring
  - Comparison to 2017 measurements (100x100 study)
  - Compare to BC model outputs
- Metals and Cr6 paired with meteorology
- Road dust and street sweeping
  - Comparison to road dust model outputs
- Purple Air PM<sub>2.5</sub>
- Next steps

# Background and Historical Context

- Natural environment (i.e., topography, climate)
- West Oakland community history in the context of socioeconomic, racial, and environmental disparities
- Redlined neighborhoods
- Infrastructure changes in the second half of the 20<sup>th</sup> century (e.g., highways, rail, shipping, etc.) and current infrastructure (e.g., truck routes, distribution centers, recycling plants, utilities)
- Historical and current demographics
- Air pollution disparities

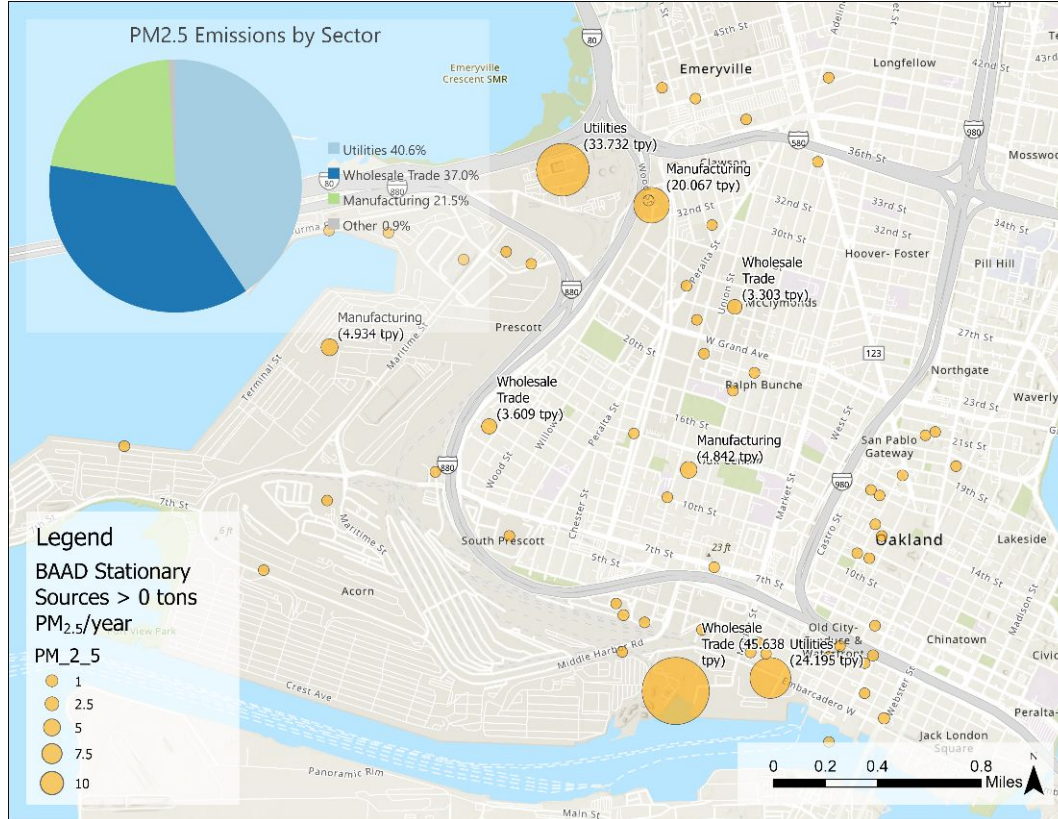


# Current Air Pollution Sources

- BAAD permitted stationary sources
- Truck routes with AADT
- Road network



# Current Air Pollution Sources

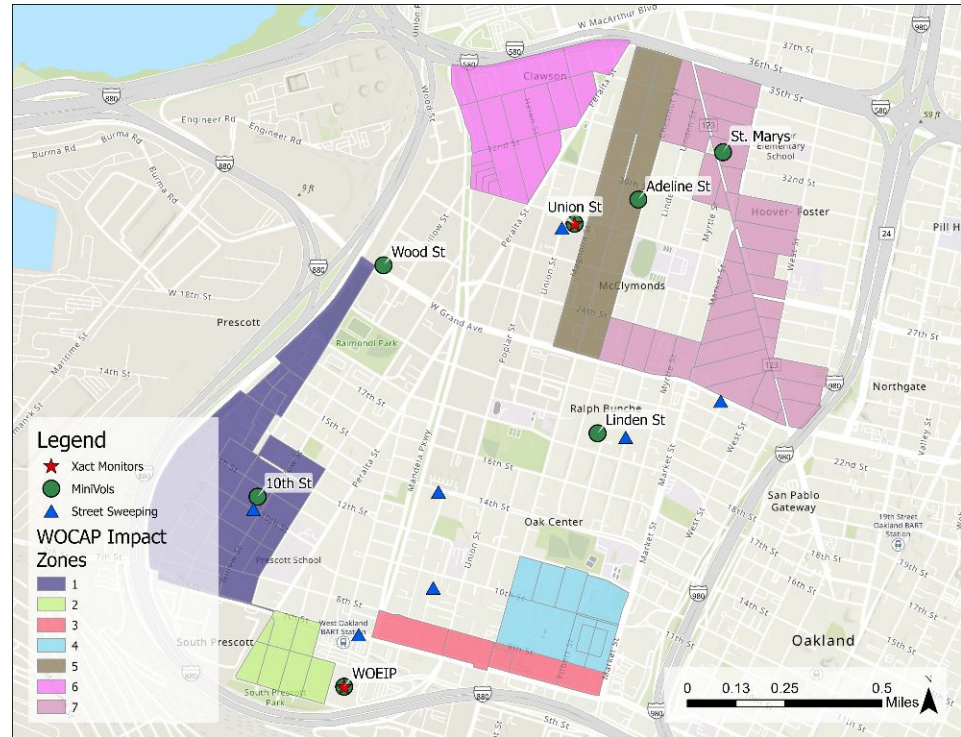


# Air Quality Improvements

- California AB617 (define)
- West Oakland as the first community to go through AB617 emission reductions (define West Oakland Community Action Plan [WOCAP] and West Oakland Environmental Indicators Project [WOEIP])
- Implementation of strategies and community goals

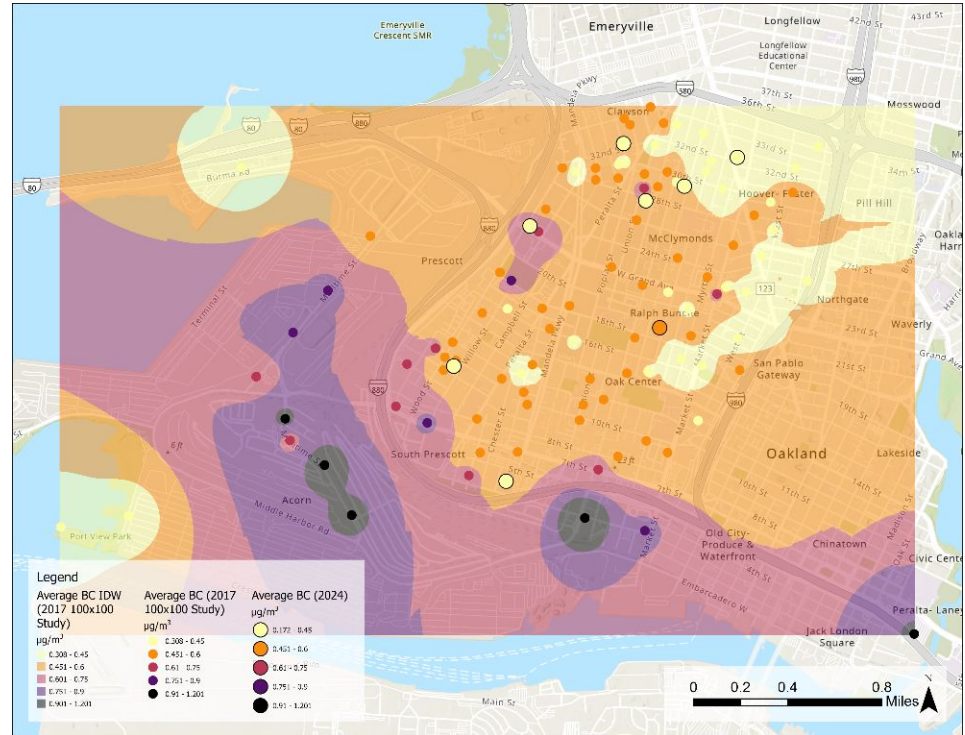
# Monitoring Goals

- Quantify how the WOCAP, AB617 funding, and state and regional policy changes from 2019–2024 have impacted air quality in West Oakland
- Measurement campaign overview (pollutants and analyzers)
- PM<sub>2.5</sub>
- Diesel PM (black carbon [BC])
- Metals and hazardous air particulate pollutants



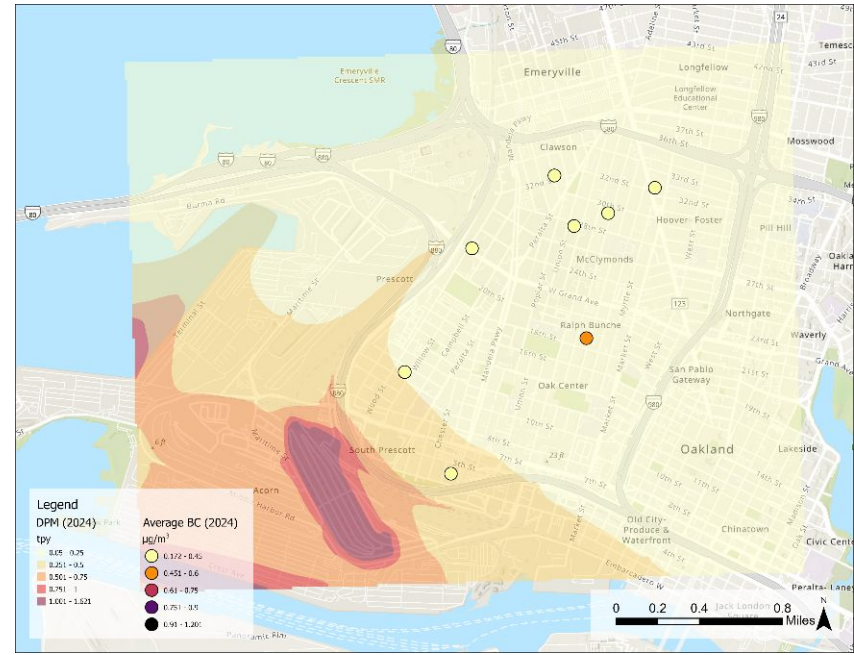
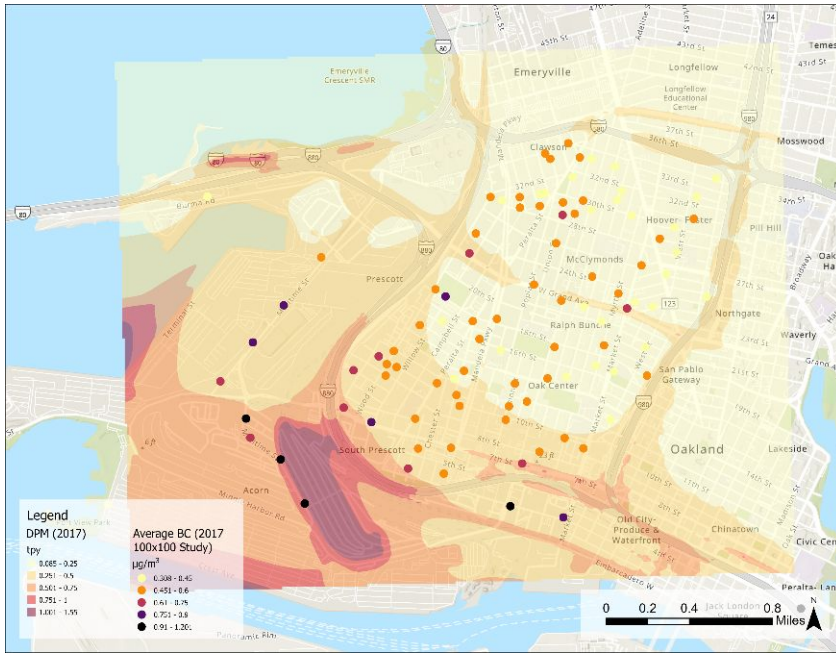
# BC Monitoring

- Overview of monitoring campaign
- Comparison between 2017 100x100 study and 2024 measurements
- Comparison between BAAD-modeled DPM and BC measurements



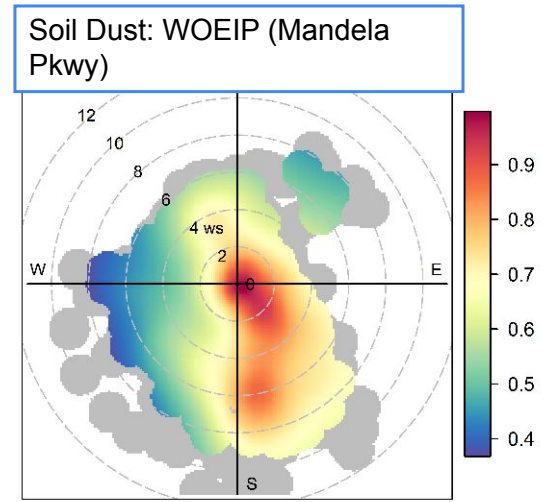
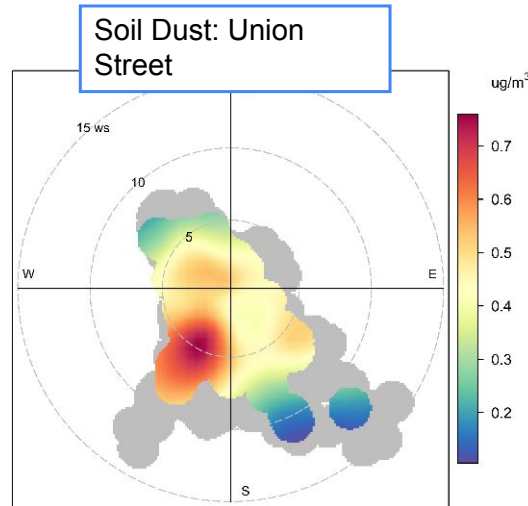
# BC Monitoring

## 2017 and 2024 measurements and comparison to DPM emissions



# Metals

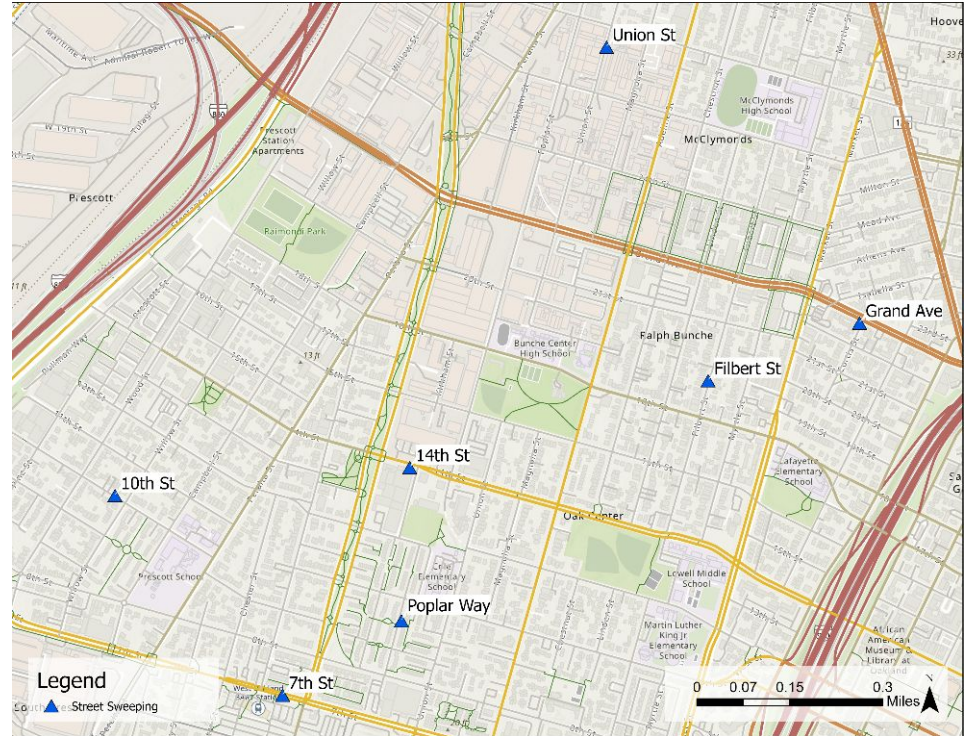
- Overview of monitoring campaign
- Mini-vol analyzers and laboratory analysis; 24-hour averages, 2-3 samples/week
- Xact; 1-hour
- Pollution rose figures
- Narrative



# Road Dust and Street Sweeping

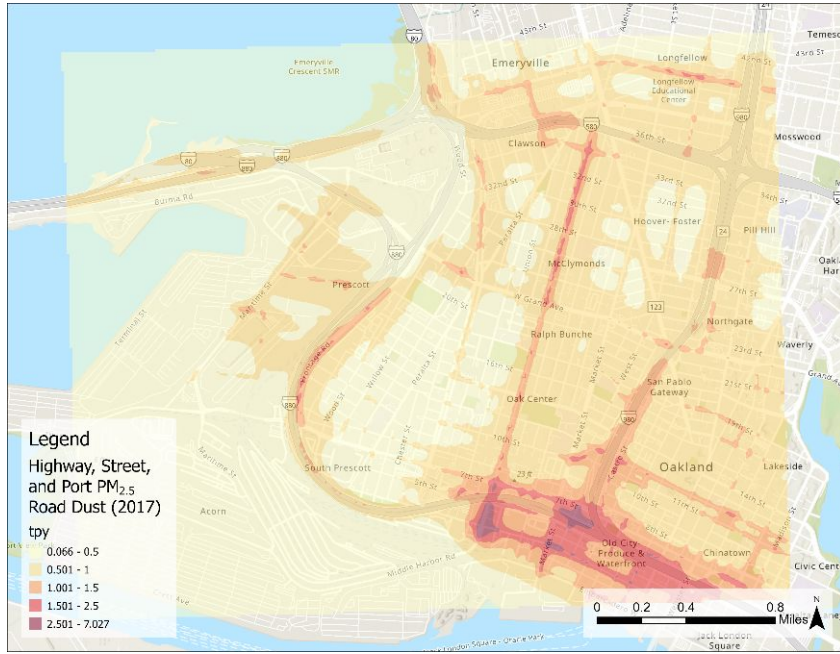
- 2017 and 2024 BAAD road dust modeling
- Overview of sampling and findings
- Next steps in street sweeping and other sources

Site	Sweep Day	Change in Conc. ( $\mu\text{g}/\text{m}^3$ )	Change in % of Ambient $\text{PM}_{2.5}$ that is Dust	Weeks Sampled
Union St	Fridays	- 0.5	- 1.3	8
Brockhurst St	Fridays	- 0.2	- 0.7	7
10th St	Thursdays	-0.04	- 0.6	9
Linden St	Thursdays	+ 0.1	0.0	12
Adeline	Thursdays	+ 0.1	0.0	12

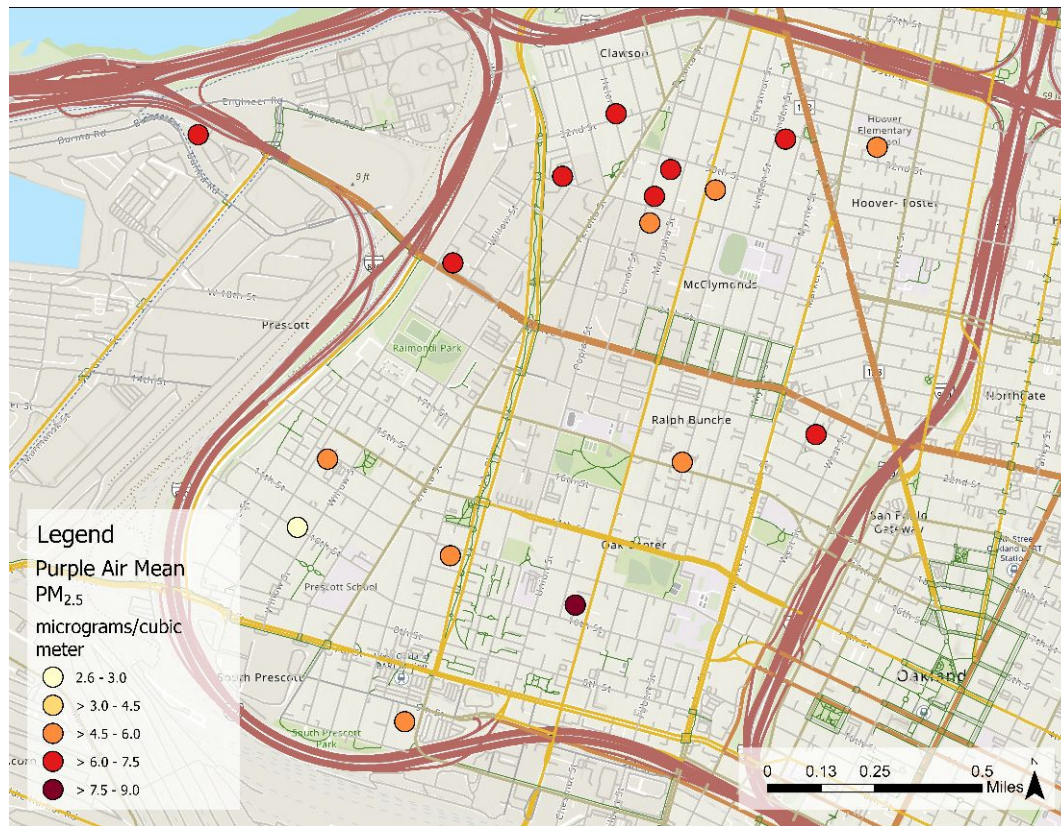


# Road Dust and Street Sweeping

2017 and 2024 modeled highway, street, and port  $PM_{2.5}$  road dust



# Purple Air PM<sub>2.5</sub>



# Discussion

# Open Forum

# Thank you.



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