



# Spare the Air Youth

TECHNICAL ADVISORY MEETING

June 16, 2020



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# AGENDA



1. Welcome and Updates (10 minutes)
2. Air Quality Monitoring during SIP (15 minutes)
3. Safe Routes to School in the next School Year (30 minutes)
4. Stretch Break (15 minutes)
5. SRTS Resources and Organizational Support during COVID-19 (45 minutes)
6. Announcements (5 minutes)

*High School Working Group Meeting moved to June 24*



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# STAY UPDATES



- STAY HS Working Group Meeting – June 24
- STAY HS Grant Program update



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# AIR QUALITY DURING SIP

MICHAEL FLAGG, AIR DISTRICT



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AIR QUALITY  
MANAGEMENT  
DISTRICT

# Shelter-in-Place & Changes in Air Quality

Spare the Air Youth Technical Advisory Committee  
June 16, 2020

Michael Flagg  
Meteorology and Measurement Division  
Ambient Air Quality Analysis Section



# Overview

- Overview of Air District
- Reduction in Emissions & Factors Affecting Air Quality
- Regional Snapshot of Changes in PM<sub>2.5</sub>
- Monitoring Site Specific Changes
- Questions



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# The Air District

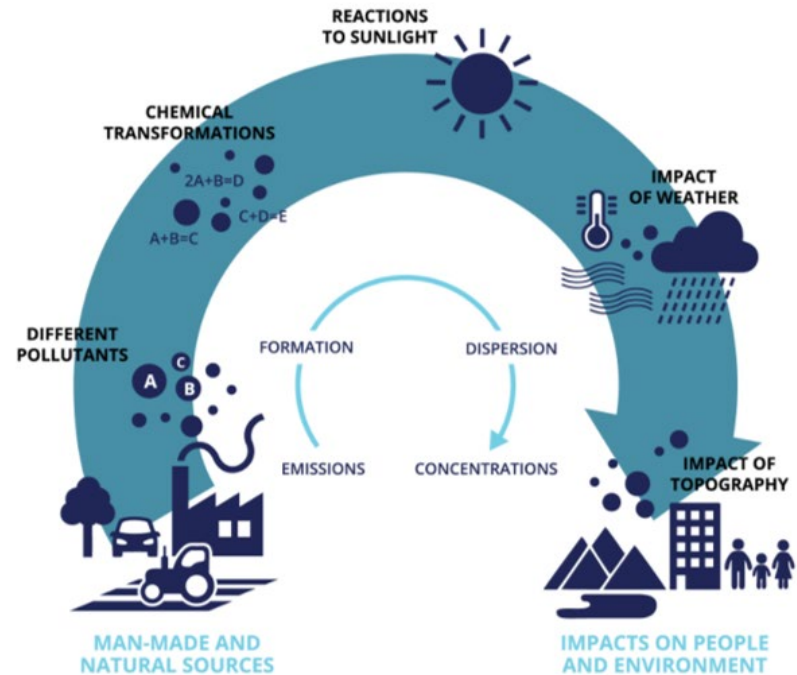
- Established in 1955
- 9-county jurisdiction; 5,340 square miles; 7 million residents
- Governing board of 24 elected officials
- Mission: To create a healthy breathing environment for every Bay Area resident while protecting and improving public health, air quality, and the global climate





# Factors Affecting Air Quality

- Air pollution concentrations vary in time and space due to:
  - Natural background sources
  - Nearby emissions ←
  - Transport from other areas
  - Meteorology
  - Chemical reactions
  - Topography



Source: EEA, 2015, Air Quality in Europe, 2015 Report





# Estimates of Emission Reductions

## Traffic (VMT)



50 to 85%

*(per traffic counts and  
cell phone tracking data)*



## Total Emissions



CO<sub>2</sub>: 20 to 30%

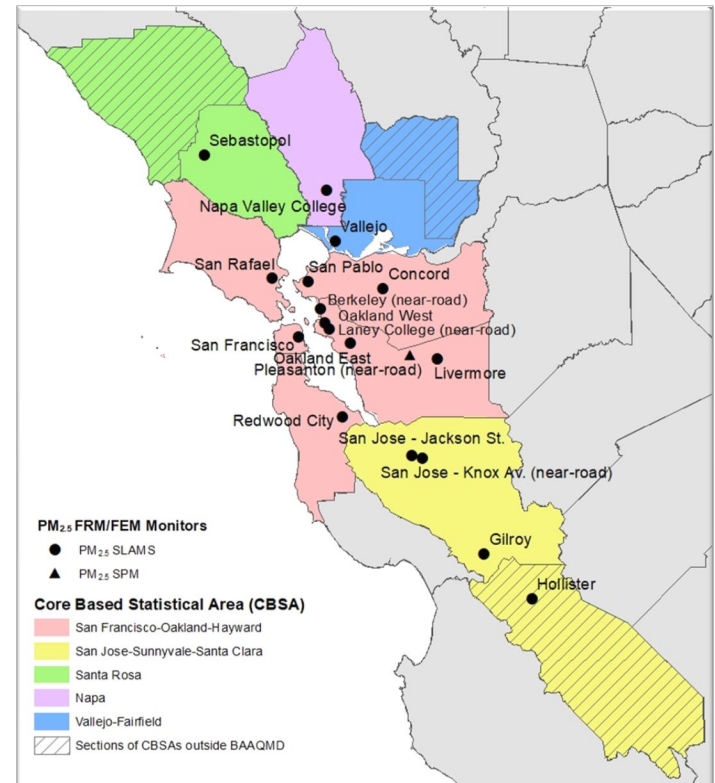
PM<sub>2.5</sub>: 15 to 25%

NO<sub>x</sub>: 30 to 45%



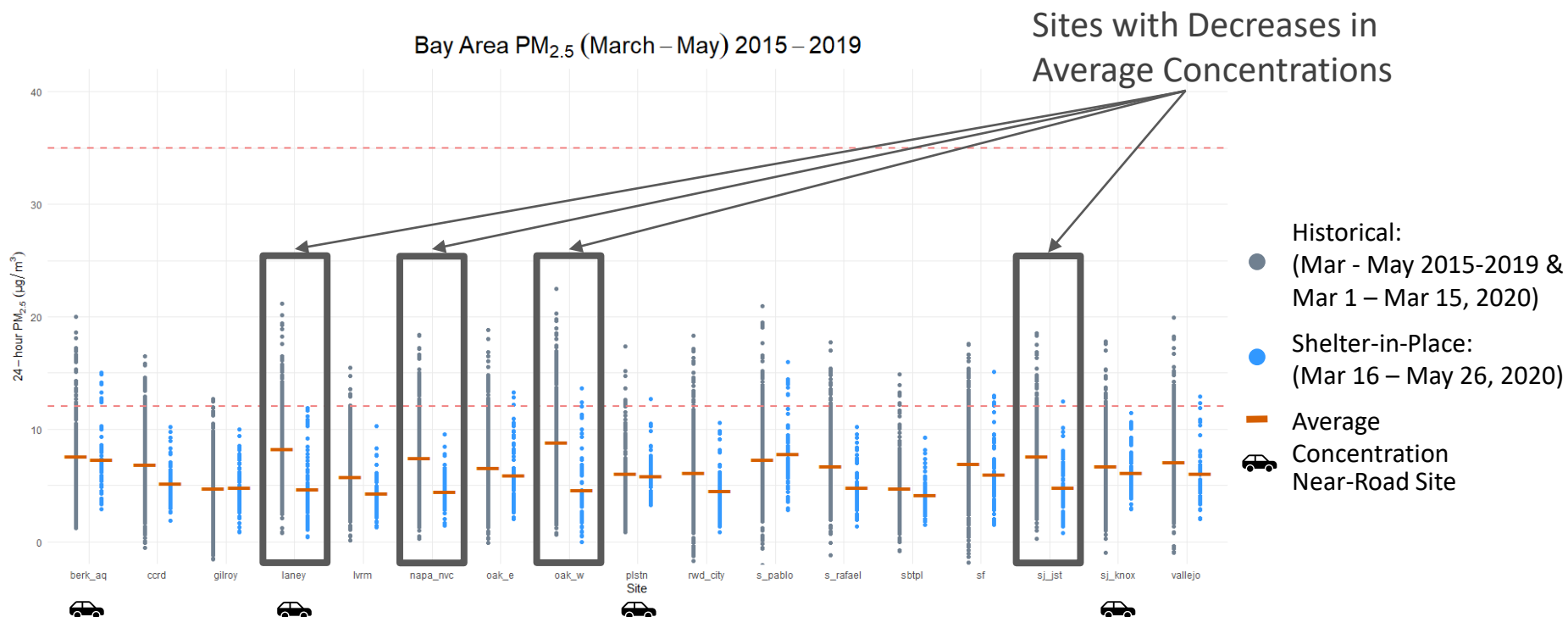
# Regional PM<sub>2.5</sub> Network

- Regional Network is designed to meet EPA federal monitoring requirements and other local objectives
- Currently, the Air District operates 17 PM<sub>2.5</sub> monitoring sites throughout the region
- This includes 4 near-road monitoring sites
  - Berkeley Aquatic Park
  - Laney College
  - Pleasanton
  - San Jose – Knox



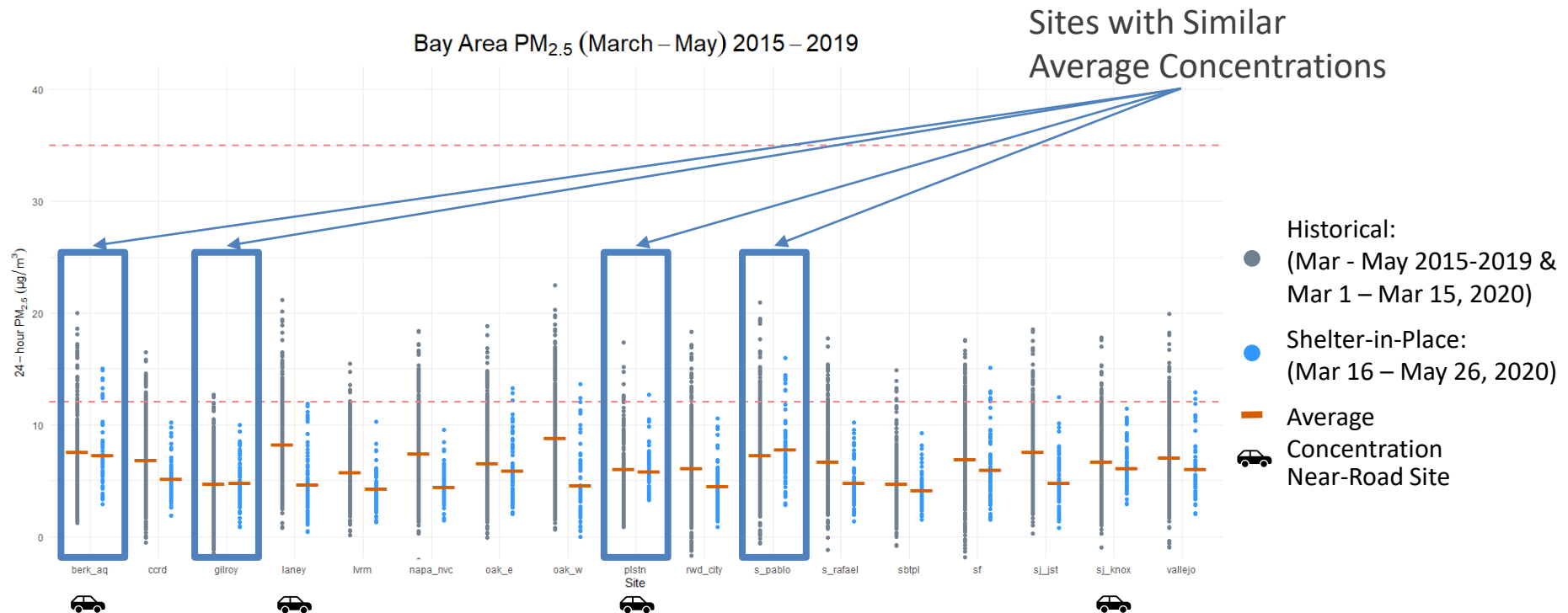


# Historical Comparison to Previous Spring Months (2015-2019)



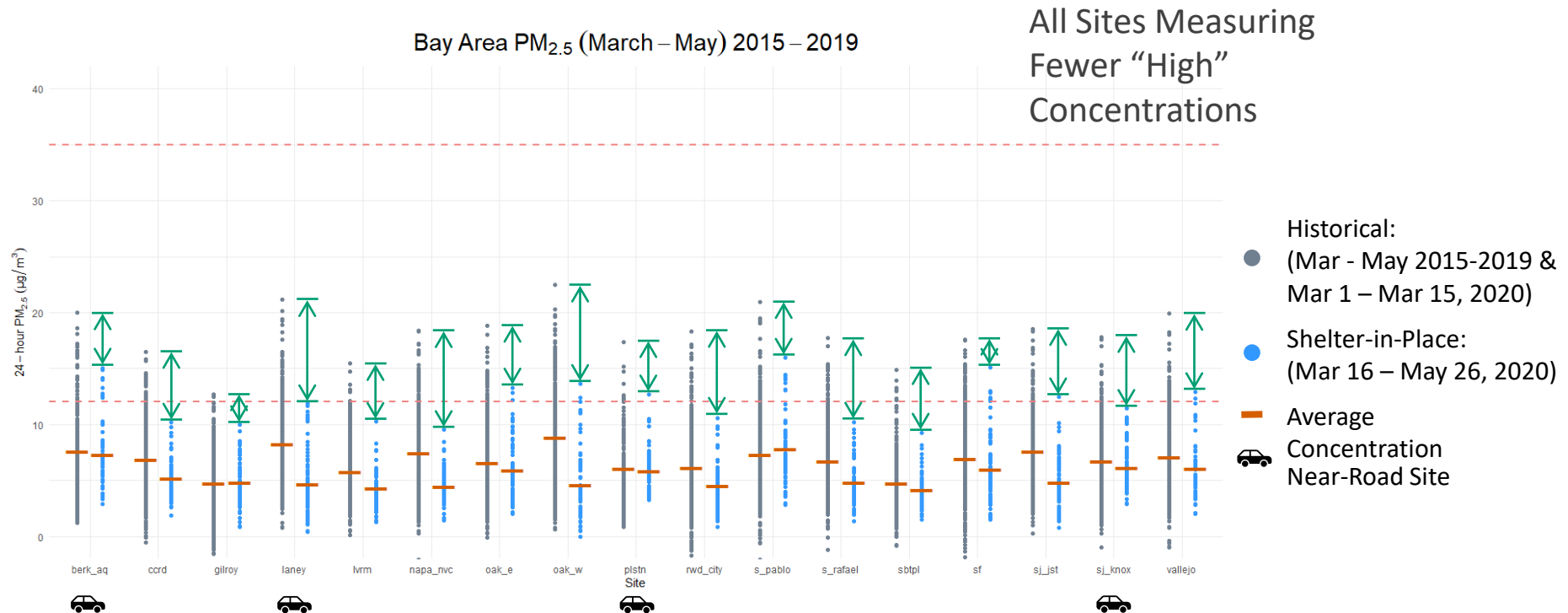


# Historical Comparison to Previous Spring Months (2015-2019)





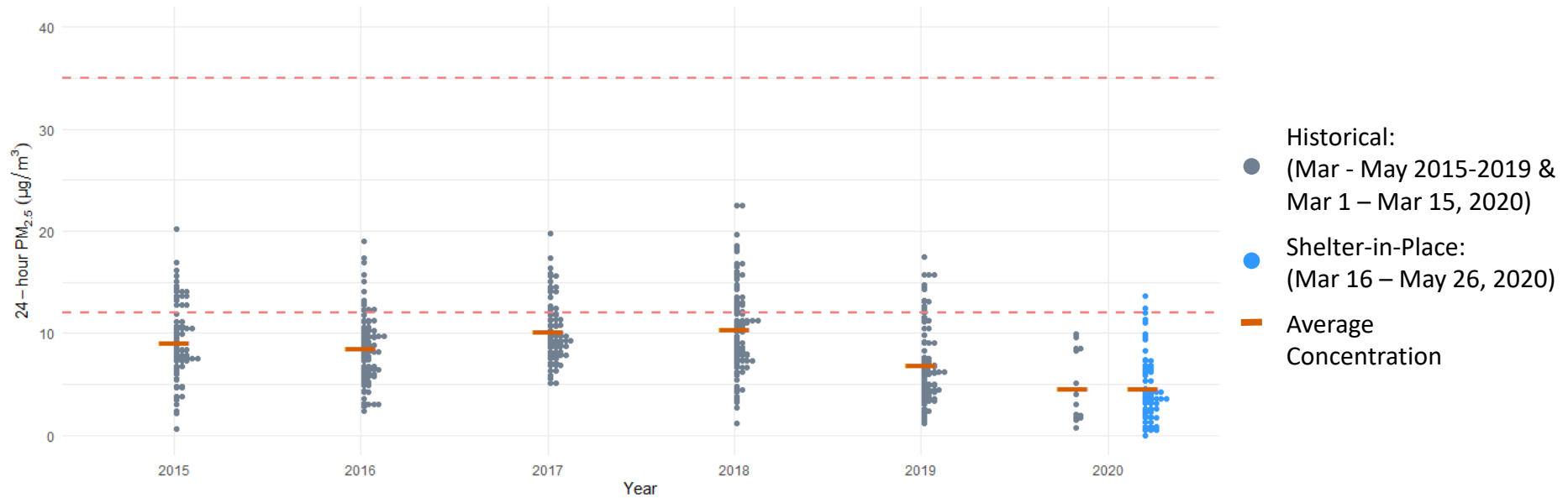
# Historical Comparison to Previous Spring Months (2015-2019)





# West Oakland Concentrations Lower Than Previous Spring Months

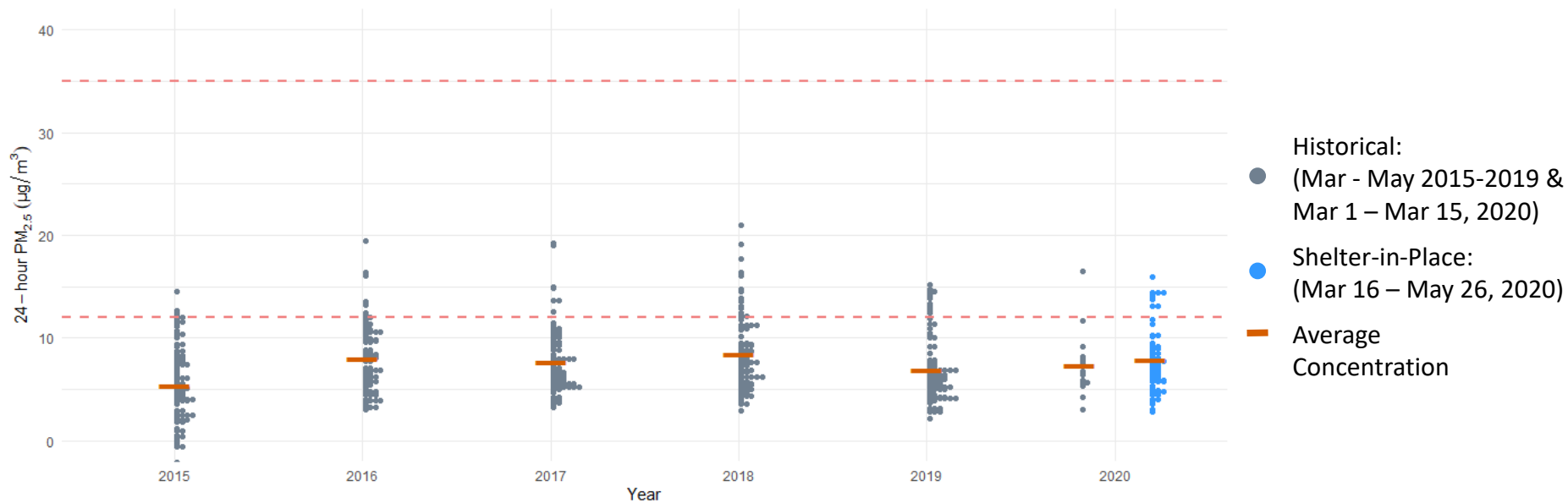
West Oakland PM<sub>2.5</sub> (March – May) 2015 – 2019





# San Pablo Concentrations Similar to Previous Spring Months

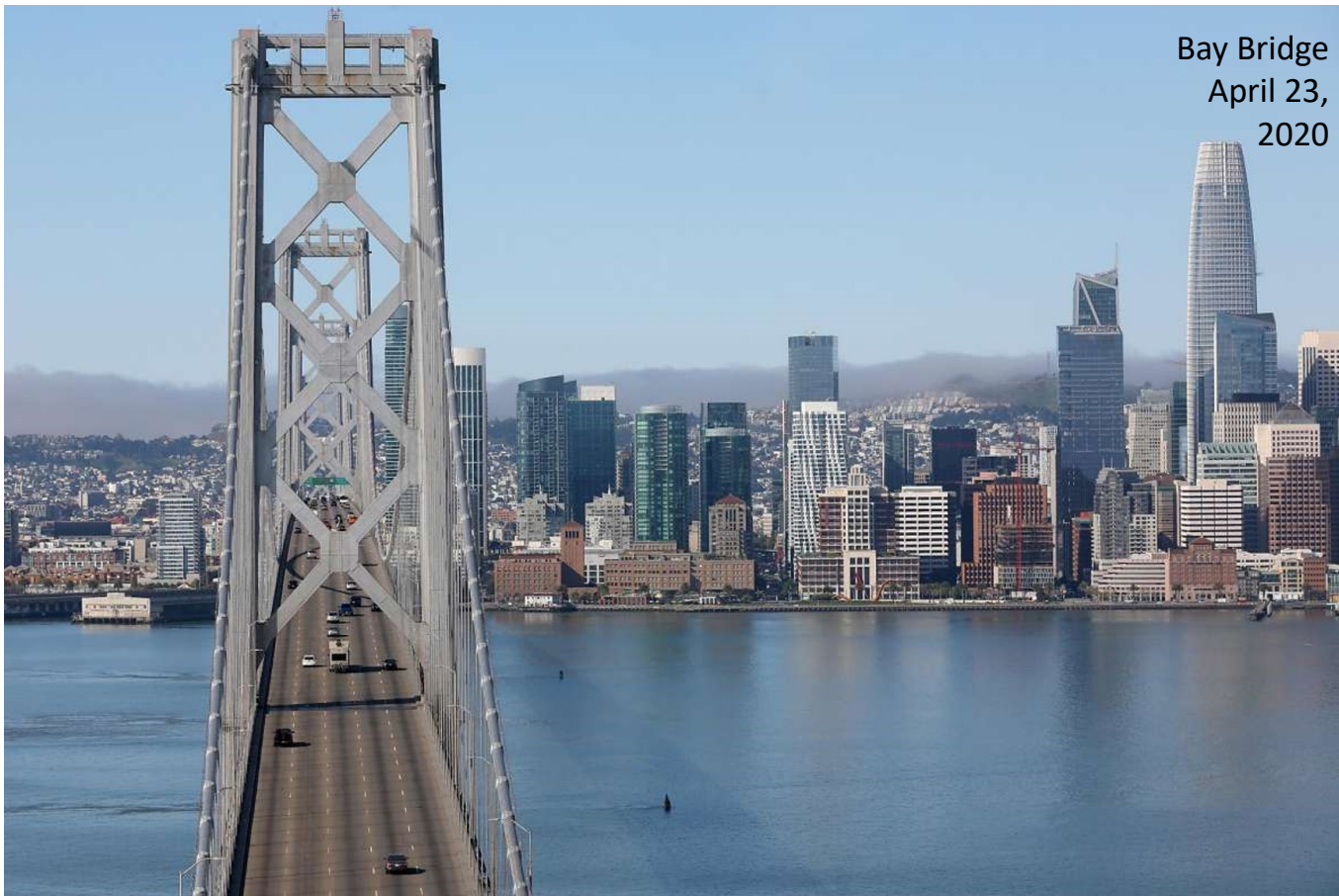
San Pablo PM<sub>2.5</sub> (March – May) 2015 – 2019





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# Questions?



Bay Bridge  
April 23,  
2020

Photo: Liz Hafalia, The Chronicle



# SAFE ROUTES TO SCHOOL IN THE NEXT SCHOOL YEAR

TAC DISCUSSION



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# SRTS IN THE NEXT SCHOOL YEAR



- How are the schools that you work with talking about opening up next Fall?
- How is your group or other providers delivering encouragement and education programming next year?
- How can SR2S help students with social distancing upon arrival when walking/biking to school?
- How will we keep volunteers (parents, teachers, students) engaged?



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# 15 MIN STRETCH BREAK!

WE'LL RESUME AT XX:XX AM





# ENVISIONING WITH PLACE IT!

JAMES ROJAS AND JOHN KAMP



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# ANNOUNCEMENTS

TAC-WIDE



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