South Sacramento – Florin Community Air Protection Steering Committee Meeting

Location: Maple Neighborhood Center
3301 37th Avenue, Sacramento, CA 95824
April 23, 2019

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Agenda

6:00 – 6:05	Welcome/Introductions
6:05 – 6:15	Recap and approve meeting notes
6:15 – 6:30	Follow-up to questions
6:30 – 7:00	Prioritize potential areas of air pollution impacts
7:00 – 7:45	Discuss monitoring equipment and potential locations
8:00	Adjourn

Recap and
Approve Meeting Notes

Overall Goal: Assist in the development of a community air monitoring plan for the South Sacramento – Florin Community

Meeting Dates	Key Takeaways/Decisions
December 11, 2018	• Overview of air quality, the District, and AB 617 • Developed air quality steering committee charter
January 25, 2019	• Approved the charter, selected Chair and Vice Chair • Recommended new community boundary
February 26, 2019	• Finalized community boundary • Developed a list of air quality concerns
March 19, 2019	• Prioritized air quality concerns (via survey) • Established general monitoring objectives and scope of actions
March 26, 2019	• Finalized objectives and actions • Developed maps of potential areas impacted by air pollution

Today's Meeting Goals

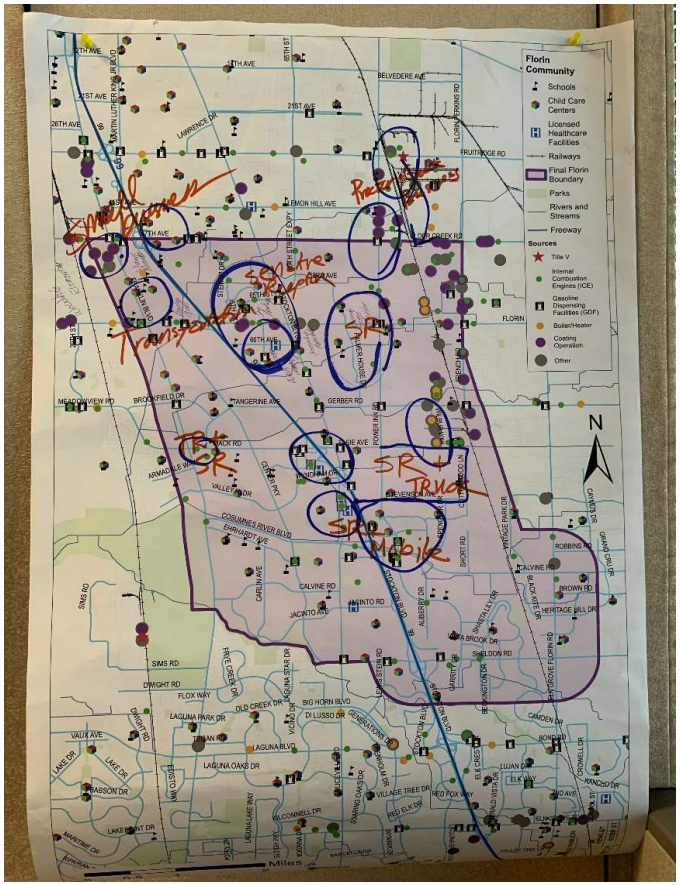
1. Prioritize potential areas of impact
2. Discuss monitoring equipment and potential locations

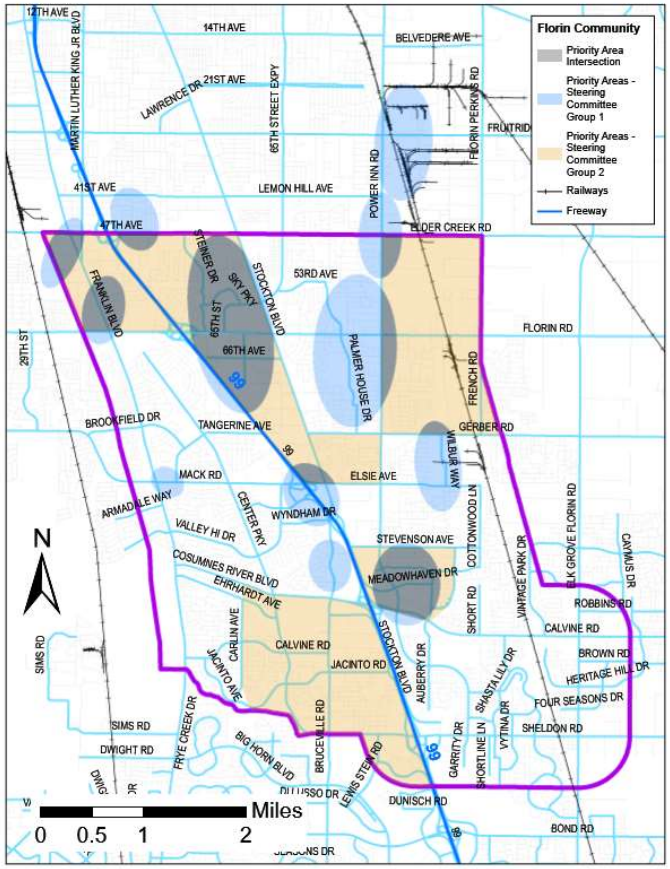
Question Follow-Up

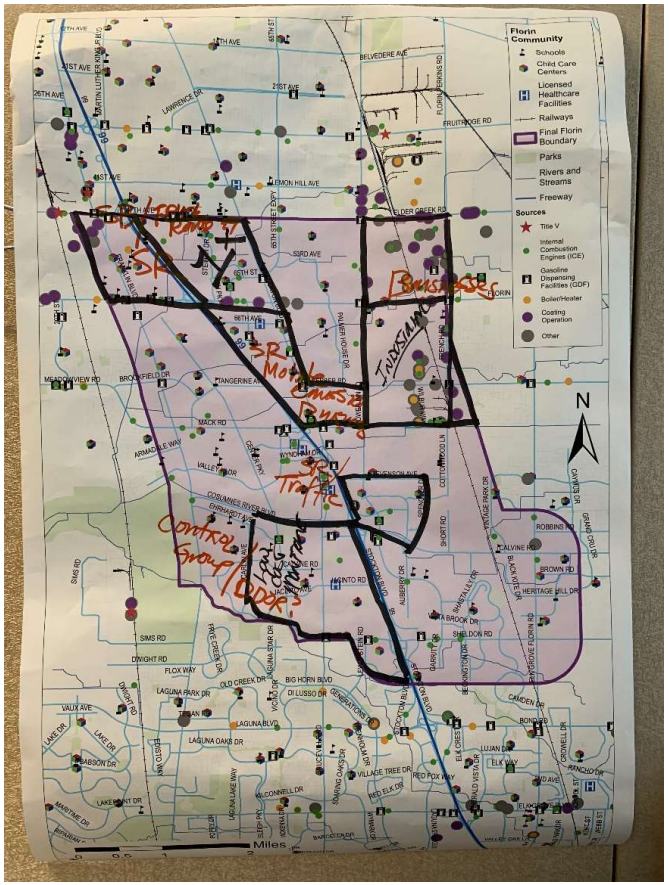
- Status of steering committee member
- Air traffic routes – Handouts
- Lawn and garden equipment
  - CARB, EPA has regulations for small off-road engines
  - CARB is working with industries to establish new standards

  https://ww2.arb.ca.gov/our-work/programs/small-off-road-engines-sore
- Update on CARB's Toxic Modeling – not available yet
- Community tour

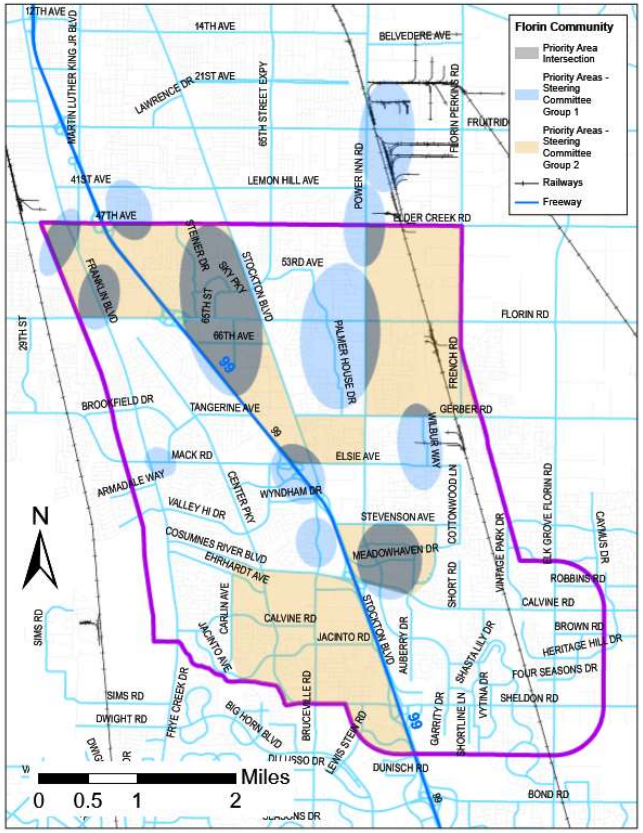
Potential Areas of Impact – Steering Committee

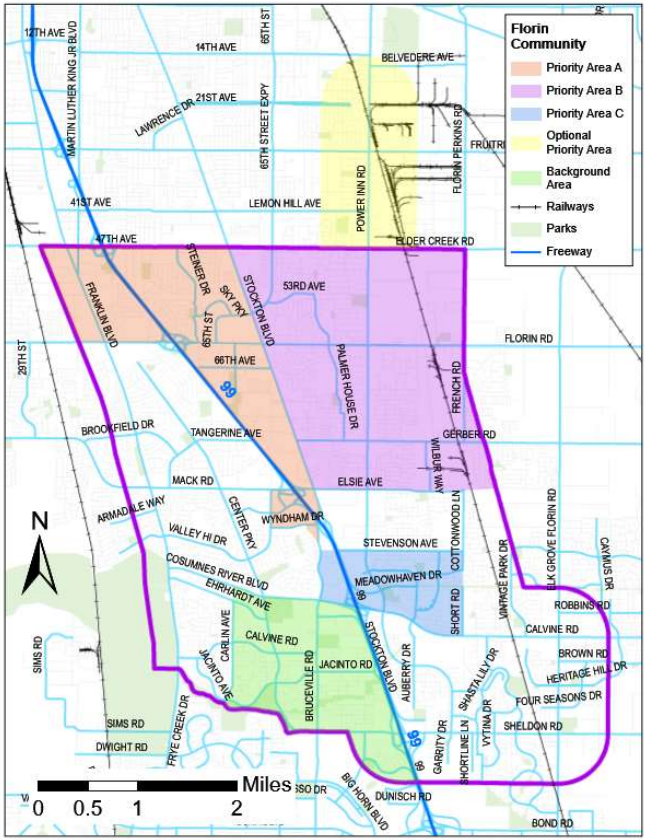






Proposed Potential Areas of Impact





Monitoring Equipment Considerations

	Portable Trailer	Stand Alone Monitors	Low Cost Sensors	Low Cost Sensors (Other purposes)
				
Pollutants	• Particulate Matter (PM) • Gaseous pollutants • Toxics chemical concentrations (PM & Gaseous) • Weather equipment	• Particulate Matter • Toxic chemical concentrations (PM only) • Multi-pollutant options	• Particulate Matter • Some weather information	• Particulate Matter • Ozone
# of Sites	One (1) Portable Trailer	2-3	7-10 minimum	non-site specific

Other considerations:

- Mobile monitoring – continuous monitoring for PM; ozone and black carbon on roadways (contract work)
- Wearable monitors – low cost sensors for PM designed for mobile applications (walking or biking)

Objectives & Equipment

Objective	Equipment Proposal	Reason

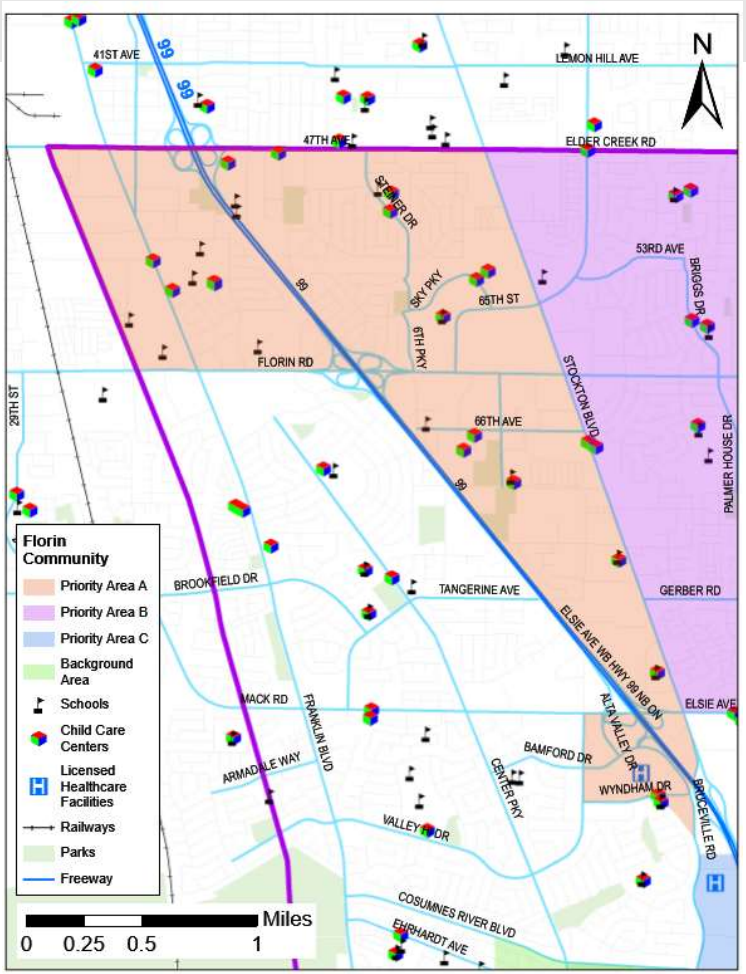
 	• Low cost PM and/or ozone sensors
	• Continuous professional grade
	  • PM
	  • ozone
		Help community make informed decisions
		  • Real time information to compare to health standards

 	• Low cost PM sensors
	• Continuous professional grade
	  • PM
	  • gaseous
	• Toxic chemical samples (gaseous & PM)
	• Weather equipment
		Source attribution:
		✓ Hourly pollution data to correlate with traffic patterns
		✓ Estimate general pollution impact to the community from mobile emissions
		✓ Measure for traffic related toxic chemicals
		
		Determine where emissions are coming from and how far they travel

 	• Continuous professional grade
	  • PM
	  • gaseous
	  • hourly chemical concentrations (if funding allows)
	• Toxic chemicals samples (gaseous & PM)
	• Weather equipment
		Source attribution:
		✓ Identify emission source (type of business, if any)
		✓ Measure for business related toxic chemicals
		
		Determine where emissions are coming from and how far they travel

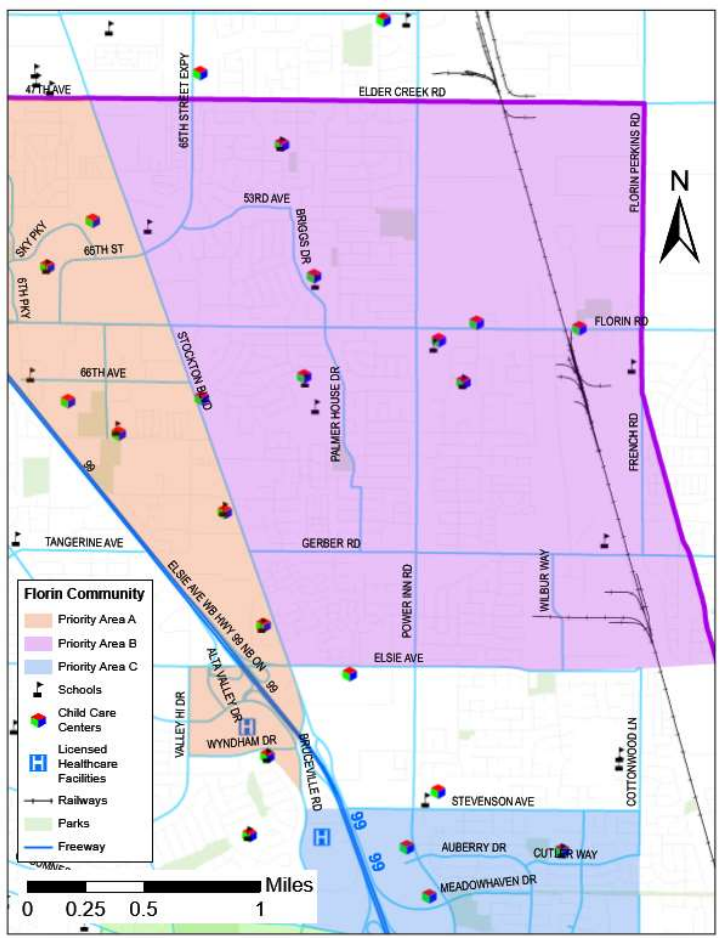
Area A

	Potential Locations (or Nearby)
Objective 1 – Public Outreach Objective 3 – Increasing Rate of Asthma • Monitor at sensitive groups (schools, hospitals, daycare centers)	Steering Committee Suggestions • Bowling Green Elementary School • Fern Bacon Middle School • Holiday Mobile Village (55+ Mobile Home Park) • Kaiser Hospital District Additions • Sacramento County Sheriff Service Center
Objective 2 – Impacts From Hwy 99/Traffic • Monitor on both sides of the highway, near truck routes on major roadways	
Objective 4 – Impacts From Stationary Sources • Monitor near stationary sources (Franklin and 47th)	



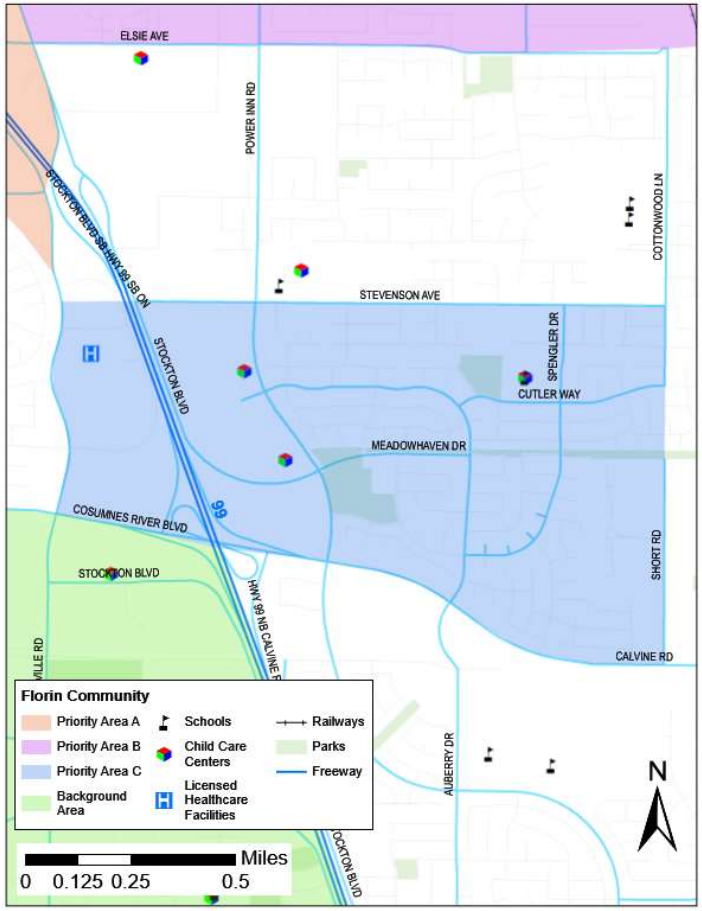
Area B

	Potential Locations (or Nearby)
Objective 1 – Public Outreach Objective 3 – Increasing Rate of Asthma • Monitor at sensitive groups (schools, hospitals, daycare centers)	Steering Committee Suggestions • David Reese Elementary School • Samuel Kennedy Elementary School • James Ruther Middle School District Additions • Florin Elementary School
Objective 2 – Impacts From Hwy 99/Traffic • Monitor near truck routes on major roadways and railroads	
Objective 4 – Impacts From Stationary Sources • Monitor near stationary sources (Florin-Perkins Areas)	



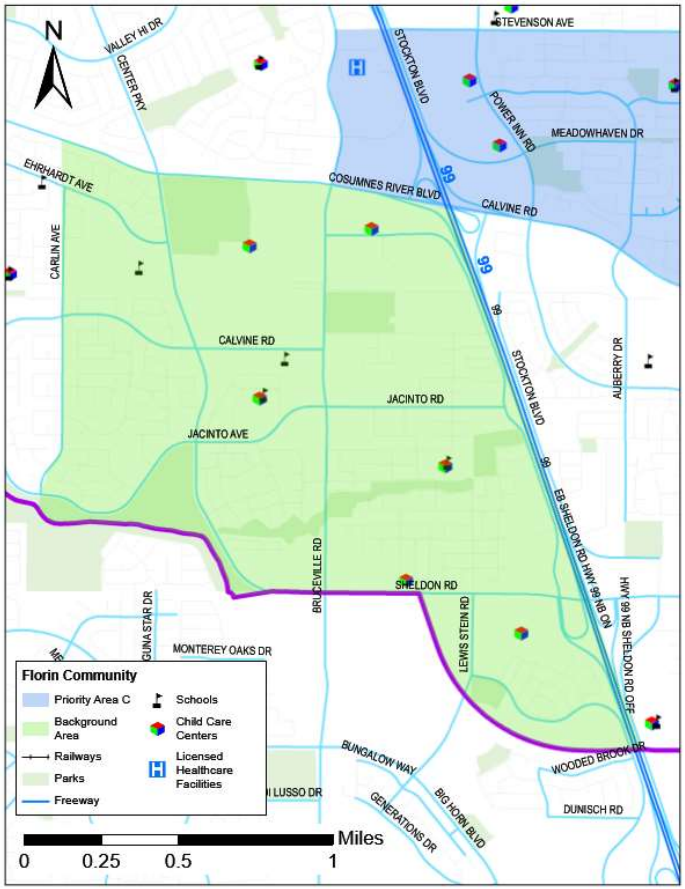
Area C

	Potential Locations (or Nearby)
Objective 1 – Public Outreach Objective 3 – Increasing Rate of Asthma • Monitor at sensitive groups (schools, hospitals, daycare center) Objective 2 – Impacts From Hwy 99/Traffic • Monitor on both sides of freeway, on freeway crossings Objective 4 – Impacts From Stationary Sources • Monitor near stationary sources (hospitals and gas stations)	Steering Committee Suggestions • Anna Kirchgater Elementary Schools • Hospitals (Methodist, Mercy) • Freeway overpass on Calvine Road District Additions • Isabelle Jackson Elementary School



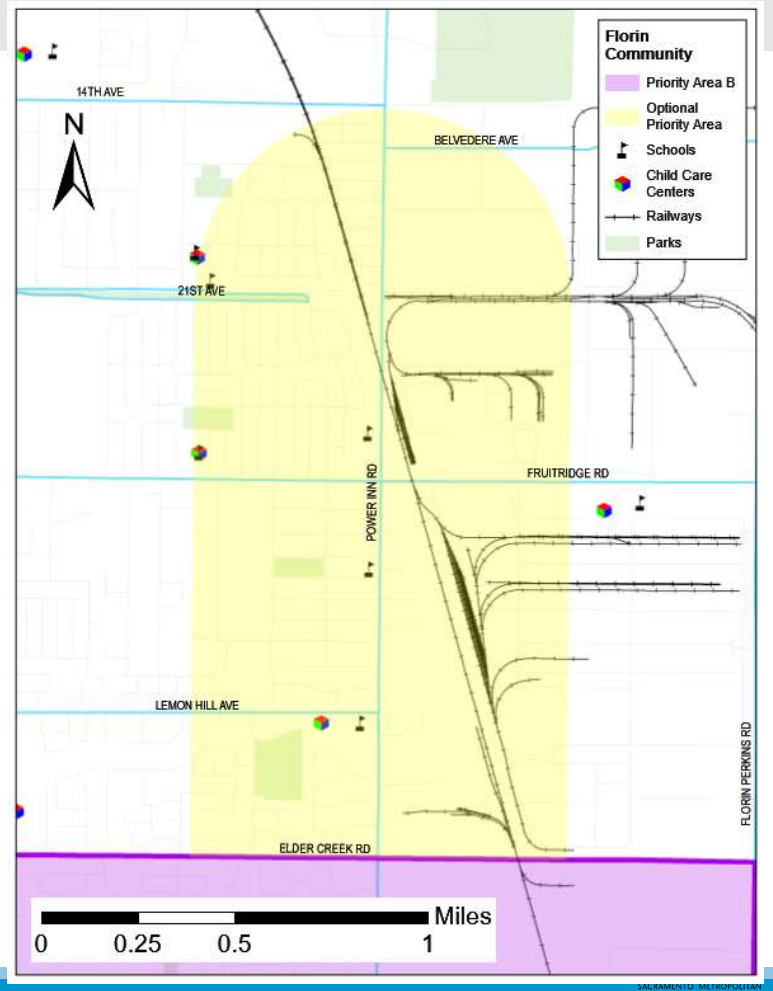
Area D

Control Area (Background Site)	Potential Locations (or Nearby)
• Measure emissions to determine background levels	District Addition • Valley High School • Cosumnes River College • John Reith Elementary School
• Monitor for odors (from wastewater treatment plant) • Monitoring equipment TBD	



Optional Area

	Potential Locations
Objective 1 – Public Outreach Objective 3 – Increasing Rate of Asthma	
• Monitor at sensitive groups (schools, hospitals, daycare center)	
Objective 2 – Impacts From Hwy 99/Traffic	
• Impacts from truck routes on major roadways	
Objective 4 – Impacts From Stationary Sources	
• Monitor near stationary sources (Proctor and Gamble, sources on Power Inn Rd)	



Next meeting: May 28, 2019

Meeting location:
Florin Creek Recreation Center

Adjourn