

South Sacramento/Florin Community Air Protection

Steering Committee Meeting #24

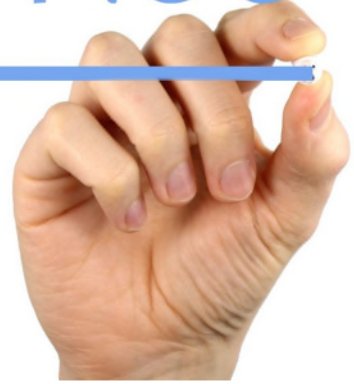
Tuesday, February 23, 2021

AGENDA

Tuesday, February 23, 2021

6:00 – 6:05pm	Welcome
6:05 – 6:15pm	Administrative Items
6:15 – 6:20pm	District Update
6:20 – 6:25pm	Community Update
	a) Valley Vision – Community Air Grant
6:25 – 6:45pm	Charter Amendment
	a) Discussion
	b) Public Comment
	c) Adoption
6:45 – 6:50pm	Co-Lead Nominations and Elections
6:50 – 7:20pm	Community Air Monitoring Data
7:20 – 7:40pm	Community Air Monitoring Plan (CAMP) Outreach Subgroup
7:40 – 7:50pm	New Business and Future Agenda Topics
7:50 – 8:00pm	Public Comments
8:00 pm	Adjourn

LOGISTICS



- Staff is available if you have technology trouble; please email AB617Clerk@airquality.org
- You can message the host or co-host if you are having technical difficulties.
- During the Steering Committee discussion period or during Public Comment period, each person who wants to speak will need to raise their virtual hand:
 - On Zoom web application – Click either Participants or Reactions, then press “Raise hand”
 - On the phone – Dial *9 to raise your virtual hand.
 - Please state your name and affiliation.
- When you are called – Please unmute yourself on the app or the phone (press *6)
- Email public comments to Clerk of the Committee at AB617Clerk@airquality.org



raise hand

Administrative Items



- 1) Approve previous meeting notes



District Update

(5 minutes)

1. Stipends
2. Climate Justice and Jobs Summit

Climate Justice and Jobs Summit

Working with our partner agencies to address larger community needs

Collaboration between agency partners, academic institutions, employers, and community organizations

A common theme:

With a new administration, we need to have a regional conversation on equitable pipelines to climate related jobs

March 30th

Here is the landing page for the Summit:

<https://www.valleyvision.org/projects/climate-justice-and-jobs-summit/>

Here is the registration link:

<https://us02web.zoom.us/meeting/register/tZMtd-qoqDouEt2miPNOOfMEO-gmE7OD3P3Tc>

Climate-Smart
Agriculture



Safeguarding
production in America's
Farm-to-Fork Capital

Built Environment



Building and
maintaining resilient,
low carbon communities

Mobility



Providing innovative and
clean transportation
options

Community Updates

(5 minutes)

1. Valley Vision – Community Air Grant

Sacramento Neighborhoods Activating on Air Quality

- CARB has awarded a two-year Community Air Grant to a group of local nonprofit organizations - **Valley Vision, WALKSacramento, Breathe CA Sacramento Region, and Green Tech Education.**
- The work will last through March 2022, and is intended to help the Old North Sacramento/Norwood and Oak Park neighborhoods **monitor their air, understand how air quality impacts health, and develop a plan to reduce exposure to air pollution.**



'Sacramento Neighborhoods Activating on Air Quality' (SNAAQ) is part of California Climate Investments, a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment — particularly in disadvantaged communities.



Overview of Workplan & Process



We are seeking North Sac and Oak Park residents to serve on a Neighborhood Coalition to decide where to place the 20 air monitors!

Stipends of \$75 per meeting are available. We want to work with residents through March 2022 to identify solutions to their air quality issues, build community power, and be able to advocate for resources to address environmental inequities.

20 Monitors Across Two Neighborhoods

PROJECT BOUNDARIES



The Clarity Node-S measures PM_{2.5} and NO₂.

- **Particulate Matter (PM)**
- **Nitrogen Dioxide (NO₂)**
- **Solar-Powered**
- **Co-Located at CARB facility for 4 weeks to ensure data quality**
- Read More: <https://www.clarity.io>

13-Member Project Advisory Committee (PAC)

- Air monitoring expert – District (Sac Metro Air District)
- Air monitoring expert – Independent (UC Davis Air Quality Research Center)
- Public health expert (Environmental Council of Sacramento - ECOS)
- City of Sacramento representative
- *Youth representative (2)**
- *Environmental justice group representative (Red, Black, and Green EJ Coalition)**
- *Old North Sacramento/Norwood resident (2)**
- *Oak Park resident (2)**
- Old North Sacramento/Norwood business representative (North Sacramento Community Development Corporation)
- Oak Park business representative (Capsity Oak Park)

Draft “People’s Blueprint”— Even More Good Stuff!

- Providing **Stipends/Incentives** for residents, youth, and EJ representatives - **\$75 per meeting**
- Memorandum of Understanding (**MOU**) between project partners
- **Charter Agreements** with PAC and NCs clarifying roles
- Conducting **outreach** using materials translated into English, Spanish, Vietnamese, and Hmong
- **Online landing page** containing project information, links, video recordings, and (ultimately) monitoring data via a public portal
- Public meetings, regular updates, and transparency

Next Steps & How to Get Involved



- Share the Survey* before March 7th:
<https://bit.ly/SNAAQSurvey>
- Read More: valleyvision.org/projects/community-air-protection/

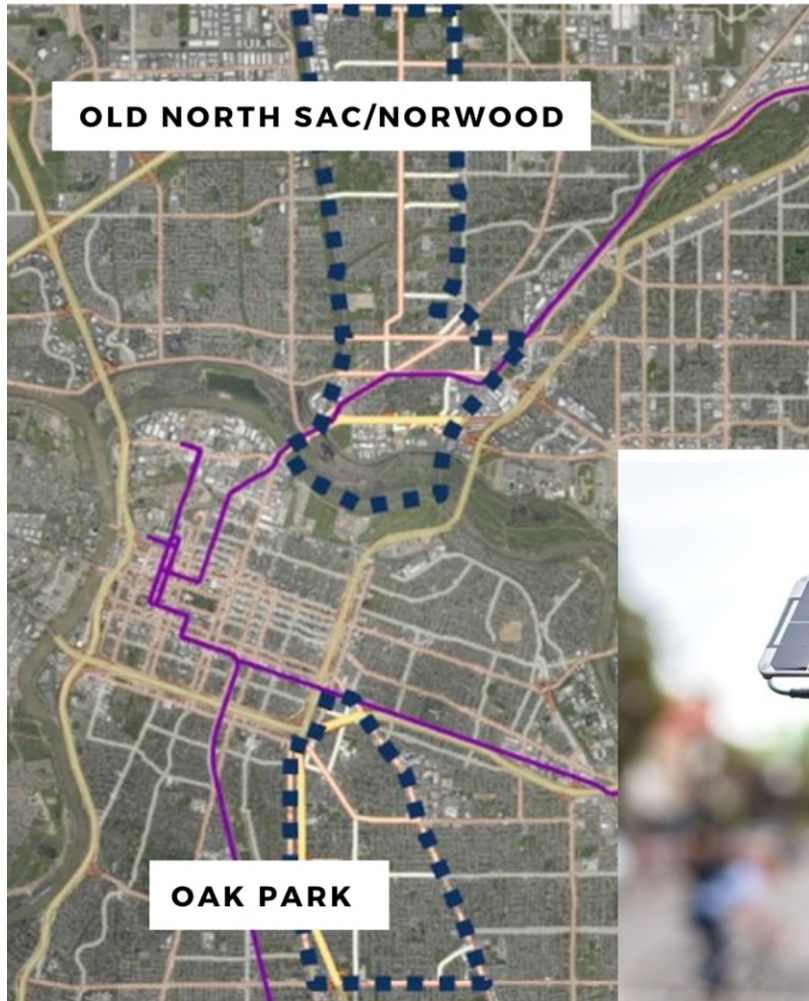
adrian.rehn@valleyvision.org

(707) 813-1913

- *Survey in English, Spanish, Vietnamese, & Hmong

Sacramento Neighborhoods Activating on Air Quality (SNAAQ)

PROJECT BOUNDARIES



10

MONITORS PER
NEIGHBORHOOD



*South Sacramento-Florin
AB 617 Steering Committee*

Tuesday, February 23rd, 2021

adrian.rehn@valleyvision.org

(707) 813-1913

Survey: <https://bit.ly/SNAAQSurvey>

Charter Amendments

(20 minutes)

1. Discussion
2. Public Comment
3. Adoption



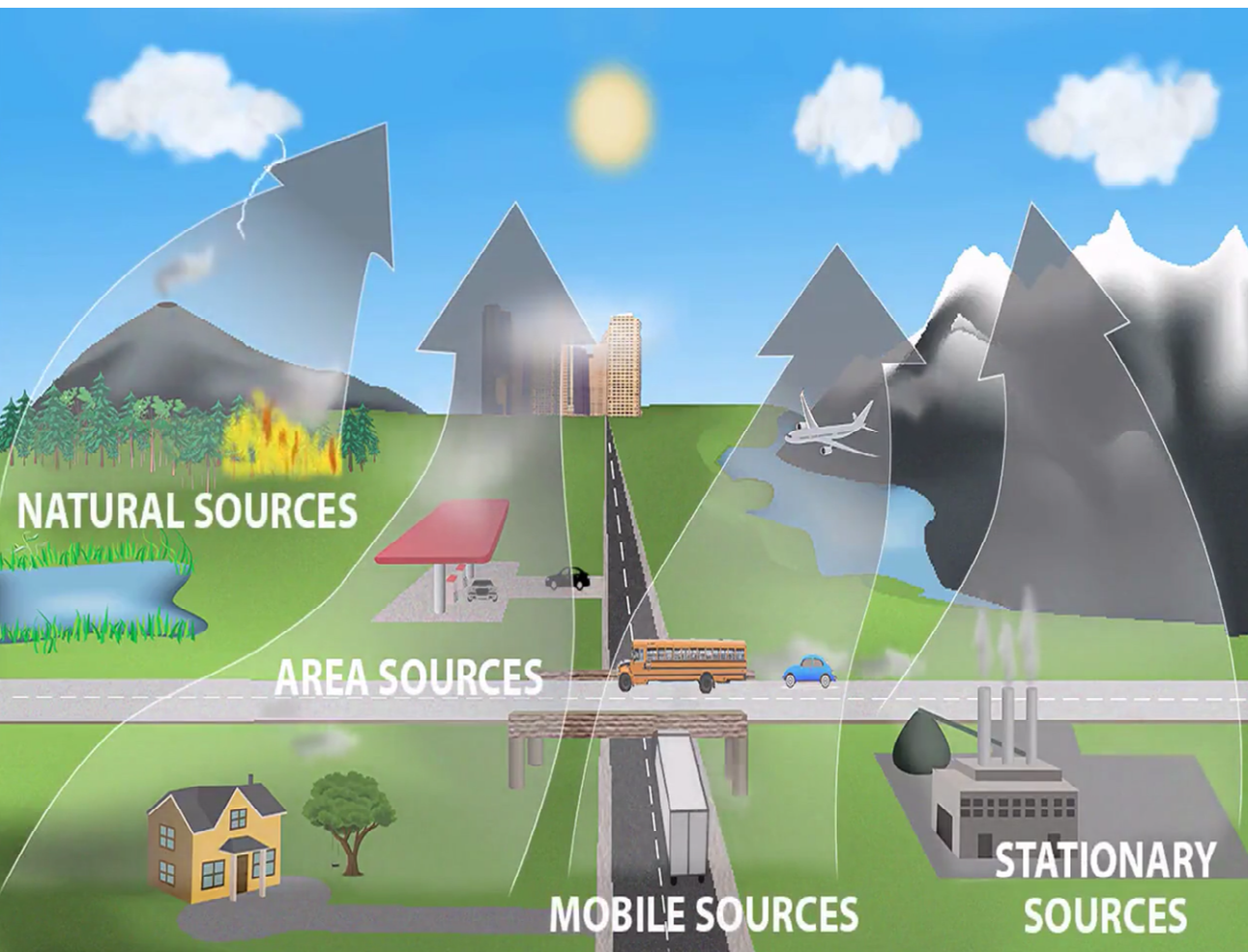
Co-Lead Nominations and Elections

(5 minutes)



Community Air Monitoring Data Update (30 minutes)

Sources of Air Pollutants



Sources can be grouped into:

- Mobile sources
- Stationary sources
- Area Sources
- Natural sources

Note: State and local emission inventories track these sources contributions

Source: EPA 2018 Trend Report, <https://gispub.epa.gov/air/trendsreport/2018/#sources>

Air Pollutants

Criteria Pollutants

- Particulate Matter (PM10 & PM2.5)
- Ozone (O₃)
- Lead (Pb)
- Nitrogen Dioxide (NO₂)
- Carbon Monoxide (CO)
- Sulfur Dioxide (SO₂)

Other Air Pollutants

- Volatile Organic Compounds (e.g. gasoline, paints, benzene)
- Metals (e.g. lead, mercury, arsenic)
- Other toxic air pollutants
- Greenhouse Gases (e.g. carbon dioxide, methane)

	On-road Vehicles	Off-road Vehicles	Power Plants	Wildfire	Indoor Sources	Natural	Other
Particulate Matter (PM)	✓	✓	✓	✓		Dust	Residential Wood Burning
Nitrogen Dioxide (NO ₂)	✓	✓	✓	✓		Lightning	Boilers, cement kilns, turbines
Ozone (O ₃)	chemical reactions	chemical reactions	chemical reactions	Can enhance production		Upper atmosphere, natural VOCs	Many sources
Carbon Monoxide (CO)	✓	✓	✓	✓	✓		
Lead (Pb)							Urban soils, some aircraft
Sulfur Dioxide (SO ₂)	✓	✓				Volcanoes, geothermal	Trains, ships, oil refining

Community Air Monitoring Objectives

South-Sacramento – Florin Community Air Monitoring Plan



In Partnership with:
The South Sacramento – Florin Steering Committee

Prepared by:
*Sacramento Metropolitan Air Quality Management District
Sacramento, California
July 1, 2020*

Objective A - Monitor for traffic-related air pollutants. Determine the spatial distribution of pollution from traffic on Highway 99 and whether these emissions are significant at schools and hospitals

Objective B – Determine which source categories the emissions are coming from and whether the emissions from the sources contribute significantly to poor air quality in the nearby areas

Objective C – Determine air quality at sensitive receptor locations and whether air quality changes by season and location for these sensitive receptors

Objective D – Increase air quality awareness in the community by making air quality information readily accessible and easy to understand

3 Phase Monitoring Approach

Phase I

Deploy 22 sensors



Phase II

Deploy 6 stand alone monitors

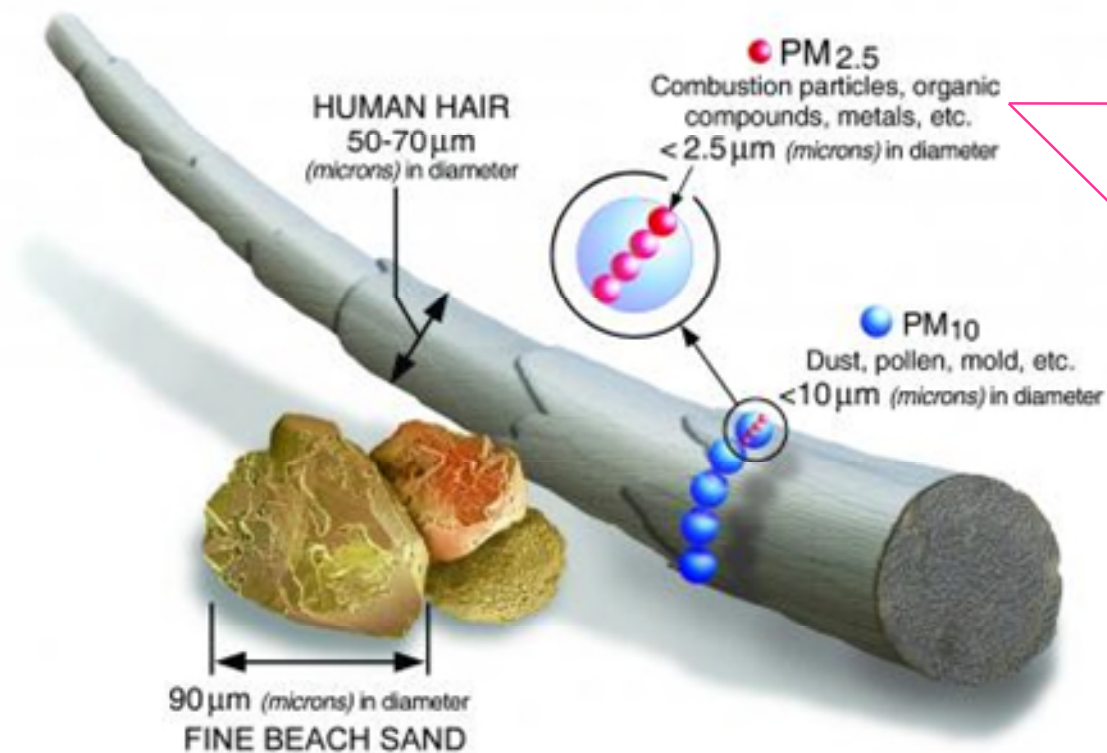


Phase III

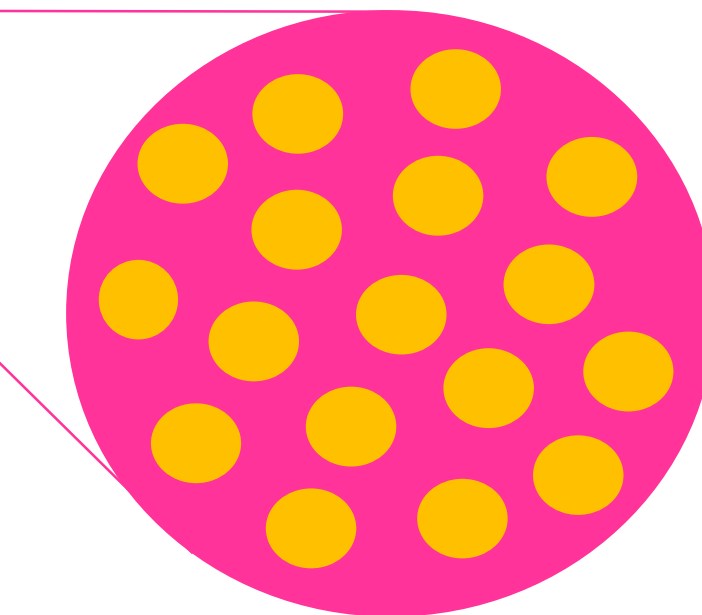
Deploy 1 portable trailer



Particulate Matter and PM Toxics

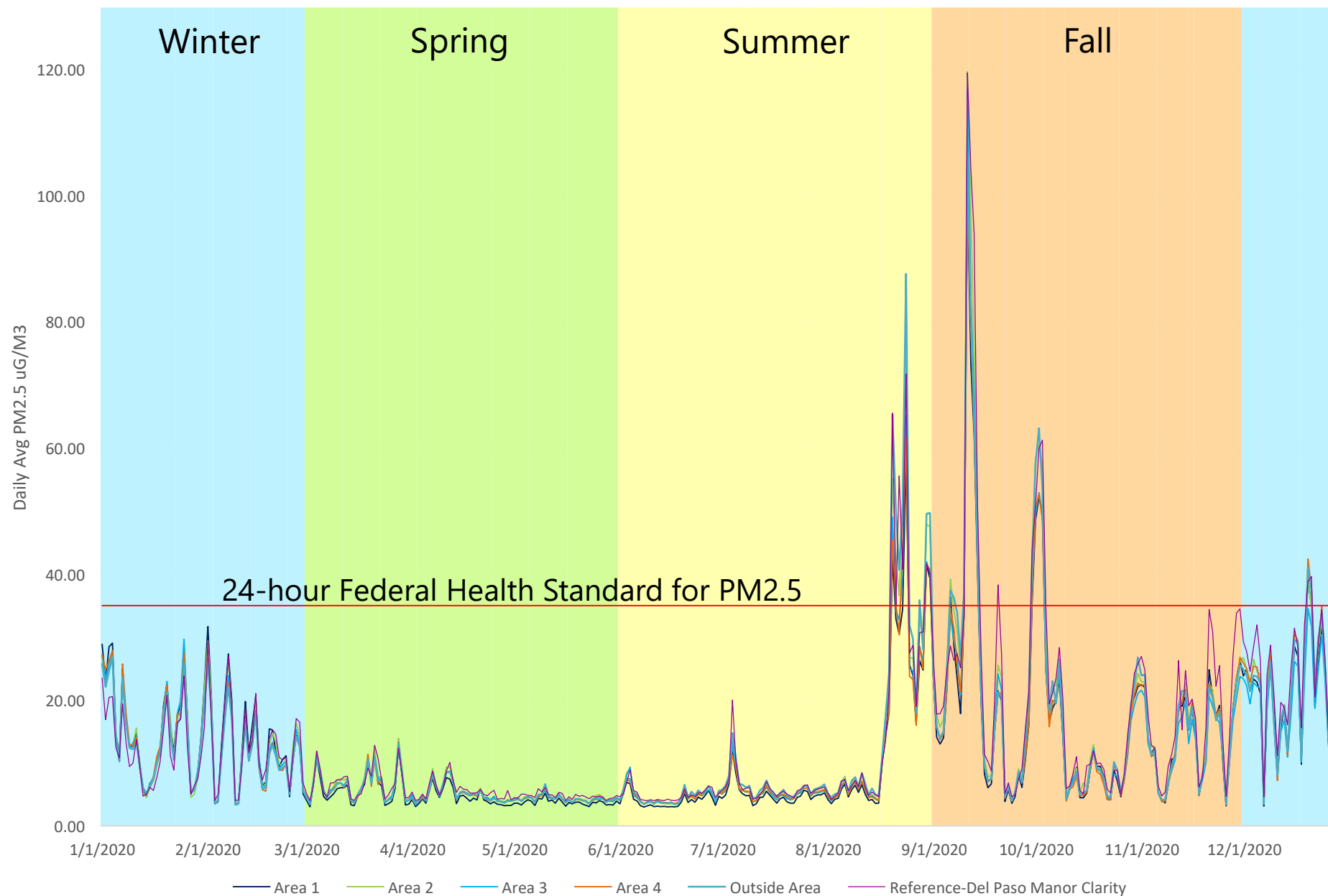


PM_{2.5}

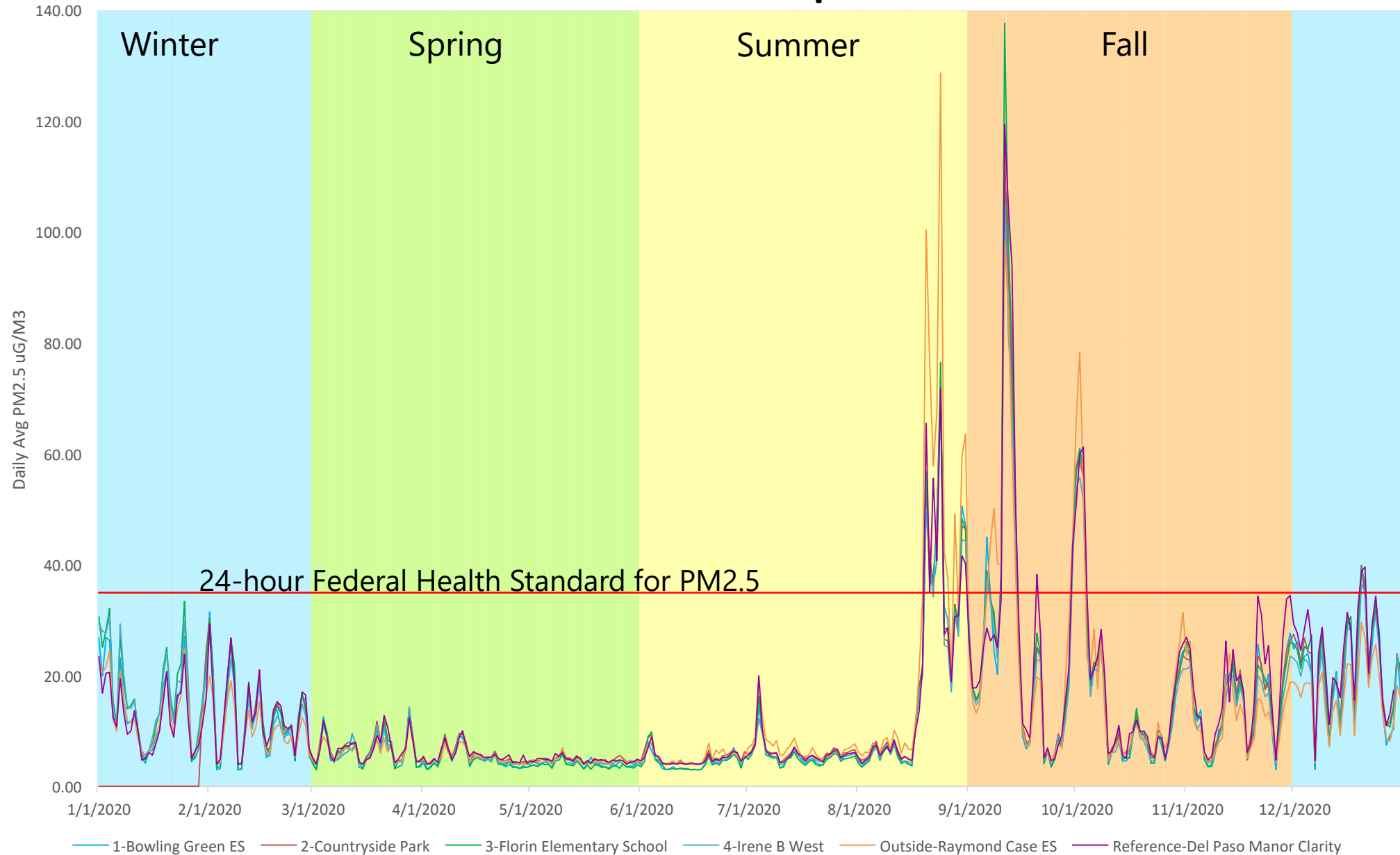


● Can contain toxics metals, black carbon and other chemicals

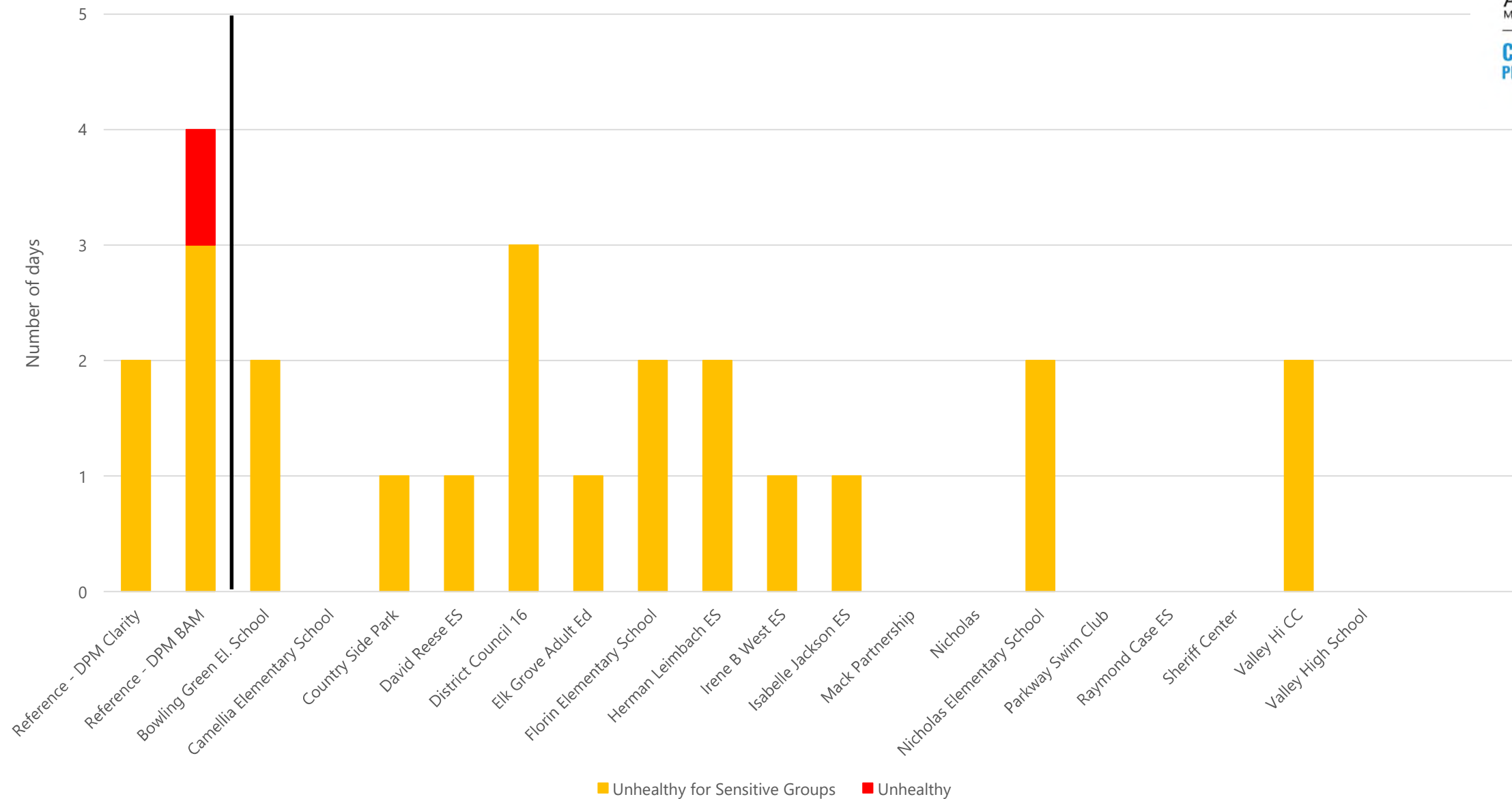
PM2.5 Daily Average per Area



PM2.5 at Max Site per Area



Days with Air Quality Unhealthy to Sensitive Groups or Higher



Note: Measurements from 8/17/20 to 10/10/20 have been excluded due to wildfire impact

Particulate Matter and PM Toxics

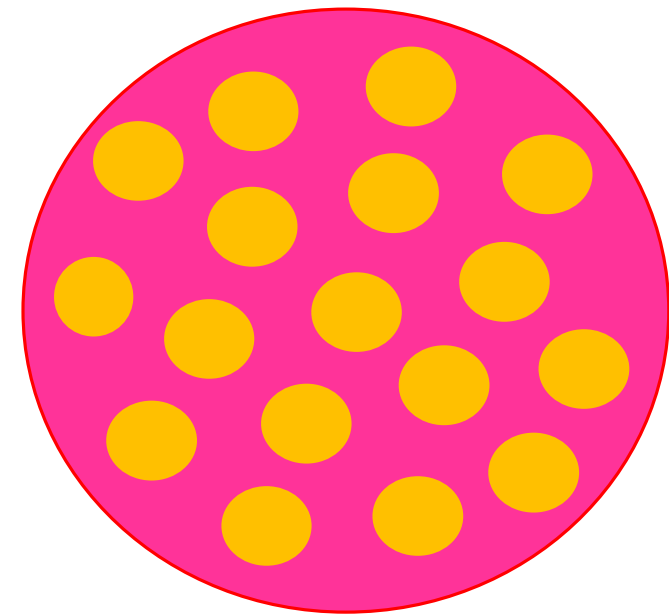
Phase 2 – 6 monitoring sites

- Species of particulate matter (i.e. 48 types metals)
- Gaseous chemical species
- Black carbon

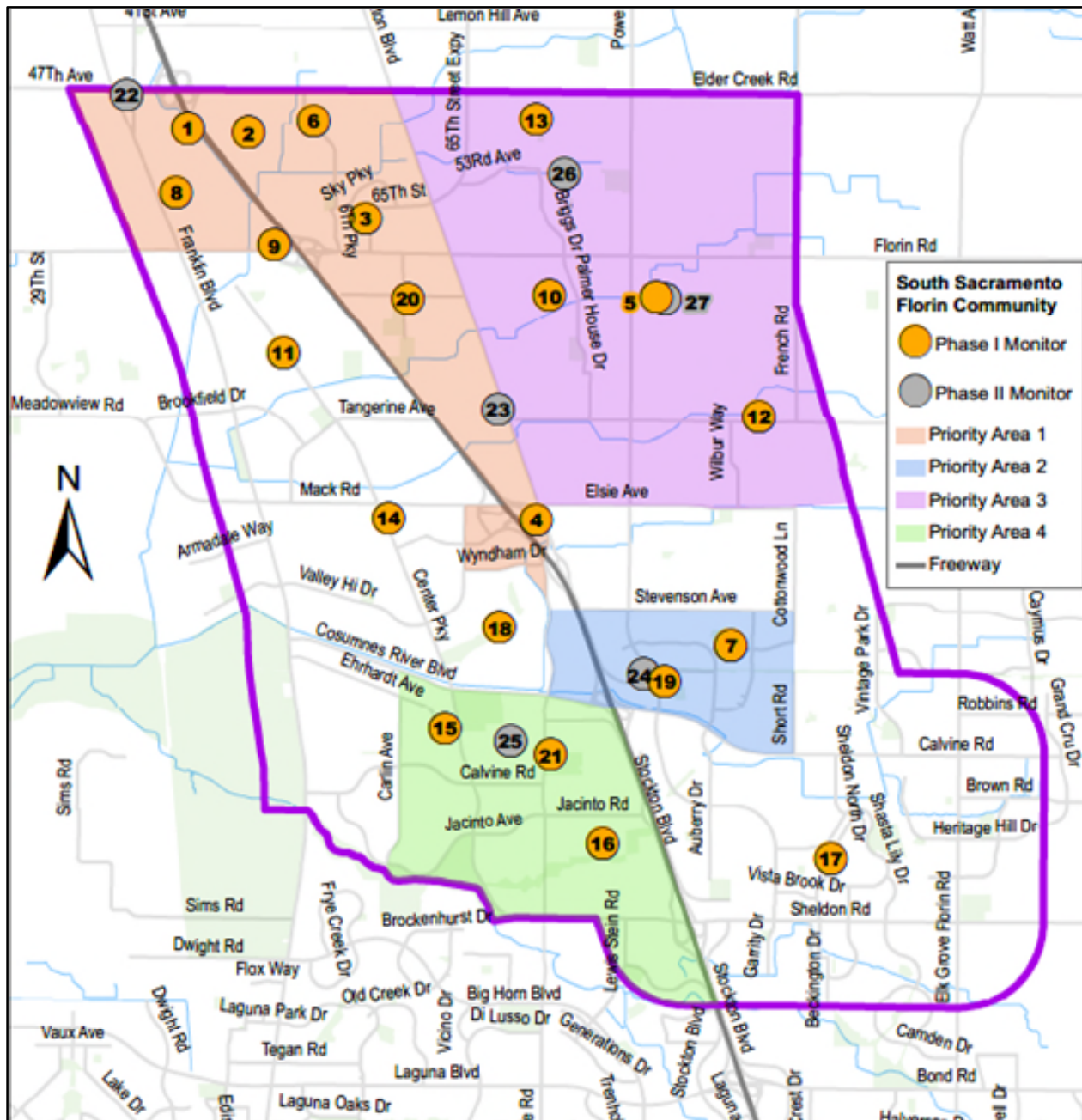
Purpose

- Enhanced screening for chemical species
- Help evaluate type of emission sources that may contribute to air pollution burden

PM2.5



- Can contain toxics metals, black carbon and other chemicals



Phase 2: 6 sites

#22 Station 56

#23 Veterans of Foreign War

#24 Impact Church

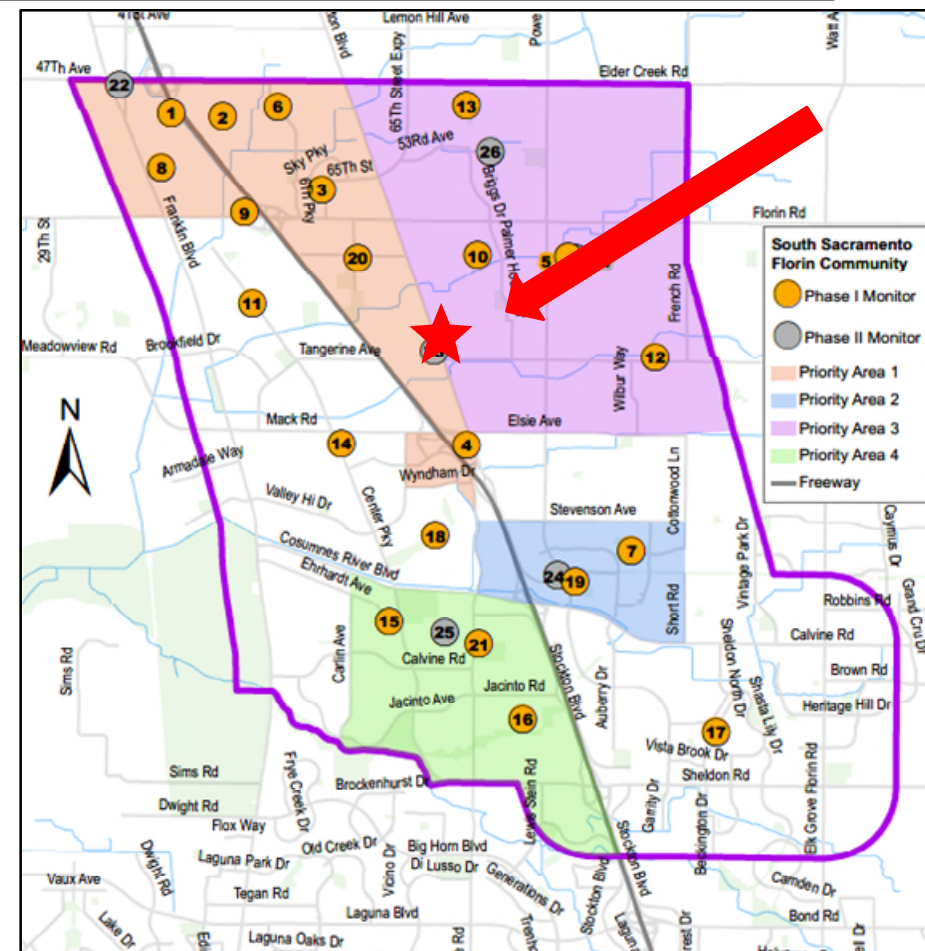
#25 Consumnes River College

#26 Sump 50

#27 Florin Elementary School

Preliminary Results from Phase 2

- 8/19/20 to 12/23/2020 (20 sample days)
- Two sites (VFW Post and Impact Church): Each had one PM_{2.5} sample higher than the federal standard during days not impacted by wildfire
- All sites have average concentrations below the federal health standard for lead
- VFW Hall - Highest average concentration
 - Particulate Matter 2.5 (PM_{2.5})
 - For many of the metals sampled



Community Air Monitoring Plan (CAMP) Outreach Subgroup Discussion (20 minutes)

Community Air Monitoring Plan Outreach Subgroup

“It is important to note that the activities and tools listed below will remain fluid and flexible as access, resource, and needs may change over time, especially due to unforeseen circumstances” (CAMP Page 14-1)

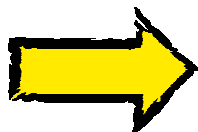


Community Air Monitoring Plan Outreach Subgroup

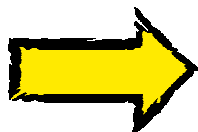
Objective D: To increase air quality awareness in the community by making information readily accessible and easy to understand



Provide air quality data through District's website and CARB's AQview



Engage in at **least six (6) community events** within 12 months of adoption of the CAMP



Evaluate effectiveness of public outreach

- Conduct polling to monitor effectiveness of public outreach
- Monitor the Community Air Protection webpage traffic with a goal of 10% increase in its first year

Community Air Monitoring Plan Outreach Subgroup

Steering Committee
identified *tools and
priority audience* to
communicate results
to support action in
the Plan (Element 14)

Table 14-1 Type of Information and top Communication Tools for Priority Audiences

Priority Audience	Type of Information	Communication Tools
Community, EJ, and Climate Organizations	The information should include: <ul style="list-style-type: none"> Emissions in the community and how they affect health How to access air quality data collected by the District 	<ul style="list-style-type: none"> Handouts Social Media Websites Community Events Public Workshops/ Presentations
Children/Students/Schools/Youth Leaders	Material should be engaging and age appropriate, and the information should include: <ul style="list-style-type: none"> How air quality impacts health How to reduce health risk from poor air quality Where to find information on current air quality to support risk reduction decisions 	<ul style="list-style-type: none"> Social Media Community Events Radio/TV
Hospitals/Asthma Sufferers/Health Fairs	The outreach material should provide health-care providers with access to and information on air quality information so that the health-care provider can distribute air quality information at its facilities. The information should include: <ul style="list-style-type: none"> Community-level air quality information Where to find air quality information 	<ul style="list-style-type: none"> Handouts Social Media Websites Community Events Public Workshops/ Presentations
Seniors/Elderly	Materials for the elderly should be readable by those with poor eyesight and include the following information: <ul style="list-style-type: none"> How air quality impacts health How to reduce health risk from poor air quality Where to find information on current air quality to support risk reduction decisions 	<ul style="list-style-type: none"> Handouts Public Workshops/ Presentations
Marginalized/Vulnerable Populations	Information targeted to marginalized communities will be made available in multiple languages. It will also be available in ways that do not rely on technology that may not be available to marginalized communities and in locations that are utilized by those communities.	<ul style="list-style-type: none"> Public Workshops/ Presentations Social Media Handouts

Community Air Monitoring Plan Outreach Subgroup

Subgroup Discussion:

- *Tasks*
- *Identify challenges*
- *Provide recommendations*
- *Lead? Members?*
- *Timeline*



New Business and Future Agenda Topics

(10 minutes)

Brainstorm- March/April Agenda Topics?

*** Only 90 mins available for topics at each meeting**

CAMP Outreach Subgroup Report Out	15-20 mins
American Cancer Society Presentation on Health	30 mins
Collaborative Decision-Making Training	60-90 mins
Air Monitoring Data/Phase 3 Location Discussion	60 mins (April at earliest)
Pre-CERP/Local Solution and Pre-CERP Subgroup: a) CARB/District presentation on CERP elements b) Discussion of forming Pre-CERP exploratory subgroup	60-90 mins
Partnership building: a) City planning b) County planning	30 mins 30 mins
Urban Heat Island presentation	30-45 mins

Public Comments

10 minutes

- To participate, please raise your virtual hand:
 - On Zoom web application – Please press “Raise your virtual hand button” under the Reactions button.
 - On the phone – Dial *9 to “Raise your virtual hand button.”
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raise hand

Adjourn

Next Meeting Date: Tuesday, March 23, 2021