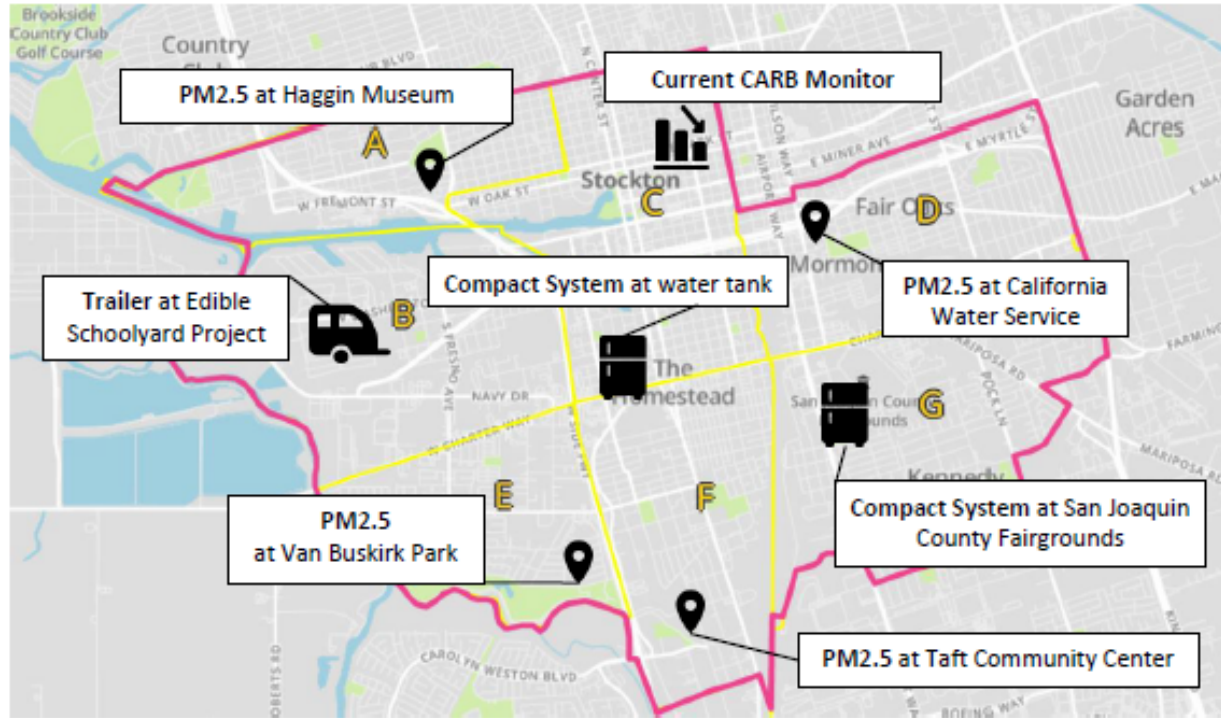


Update on Stockton Community Air Monitoring

Stockton CSC Meeting
March 05, 2025

CAMP Implementation Status



Mobile Monitoring Van: respond to community concern	Compact System: PM2.5, Black Carbon, SO2, NO2/NO, & VOC
Trailer: PM2.5, Black Carbon, Ozone, CO, NO2/NO, H2S/SO2, VOC, & Toxics	CARB Monitor: PM2.5, PM10, Ozone, NO2/NO, CO, & Toxics
PM2.5 Monitor	

Zone	Location	Installed	Notes
A	Haggin Museum	X	PM2.5 installed on April 4, 2022; VOC sampling from Sept. 2022 to June 2023
B	Edible Schoolyard Project (Boggs Tract Community Farm)	X	Installed on June 26, 2023; VOC sampling commenced July 2023
C	University Park (CARB)	X	CARB installed on October 1, 2021
C	Water Tank (El Dorado St. & E. Clay St.)	X	Installed on March 2, 2022
D	California Water Service Building (E. Lafayette St.)	X	Installed on February 16, 2022
E	Van Buskirk Park		<u>Van Buskirk:</u> Information provided to City of Stockton Public Works who needs time to discuss internally. Awaiting response. Permission denied at Conway Homes (Housing Authority of the County of San Joaquin) and Kipp School.
F	Taft Community Center		Working with Taft Community Center to install electrical infrastructure
F	Little Manila Center	X	PM2.5 monitor temporarily deployed at Little Manila Center
G	San Joaquin County Fairgrounds	X	Installed on May 3, 2022

Community Air Monitoring



Key Takeaways

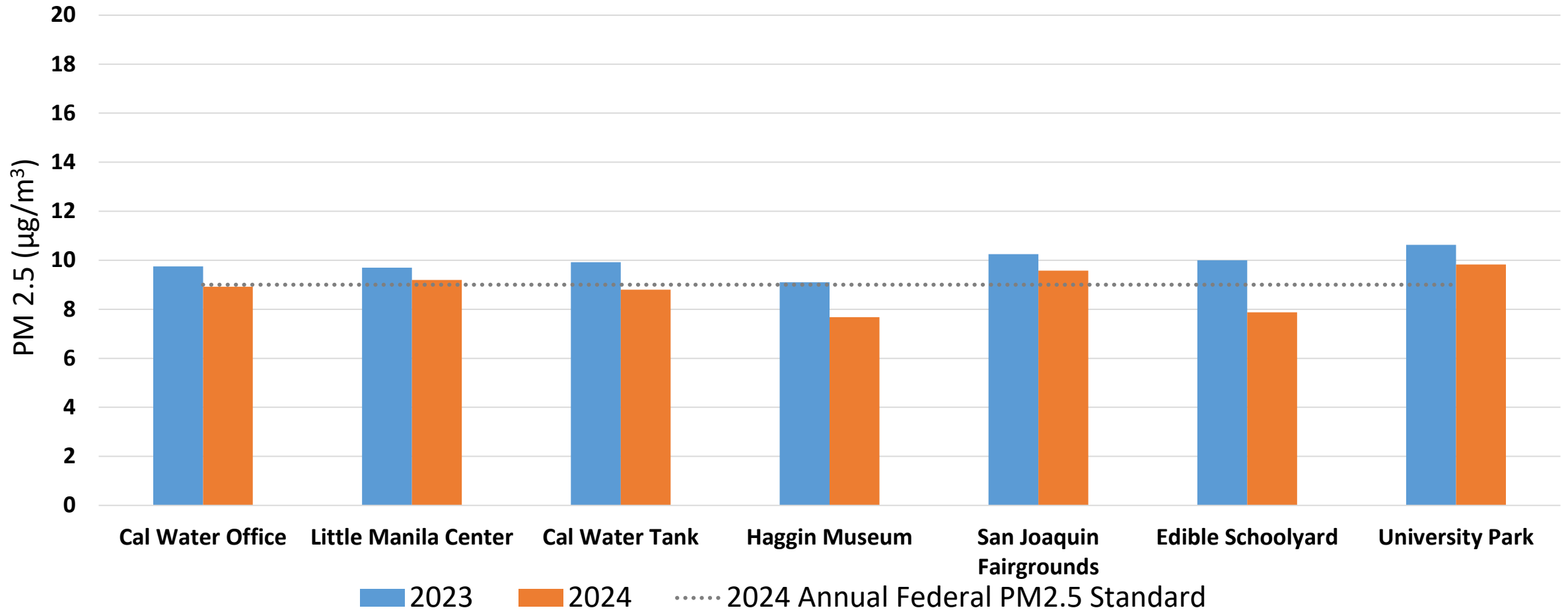
For the 2024 annual average we saw a slight decrease in PM 2.5 across all sites.

Cold, dry, and stagnant conditions in December contributed to elevated PM2.5 levels

Air monitoring data available online at your community portal

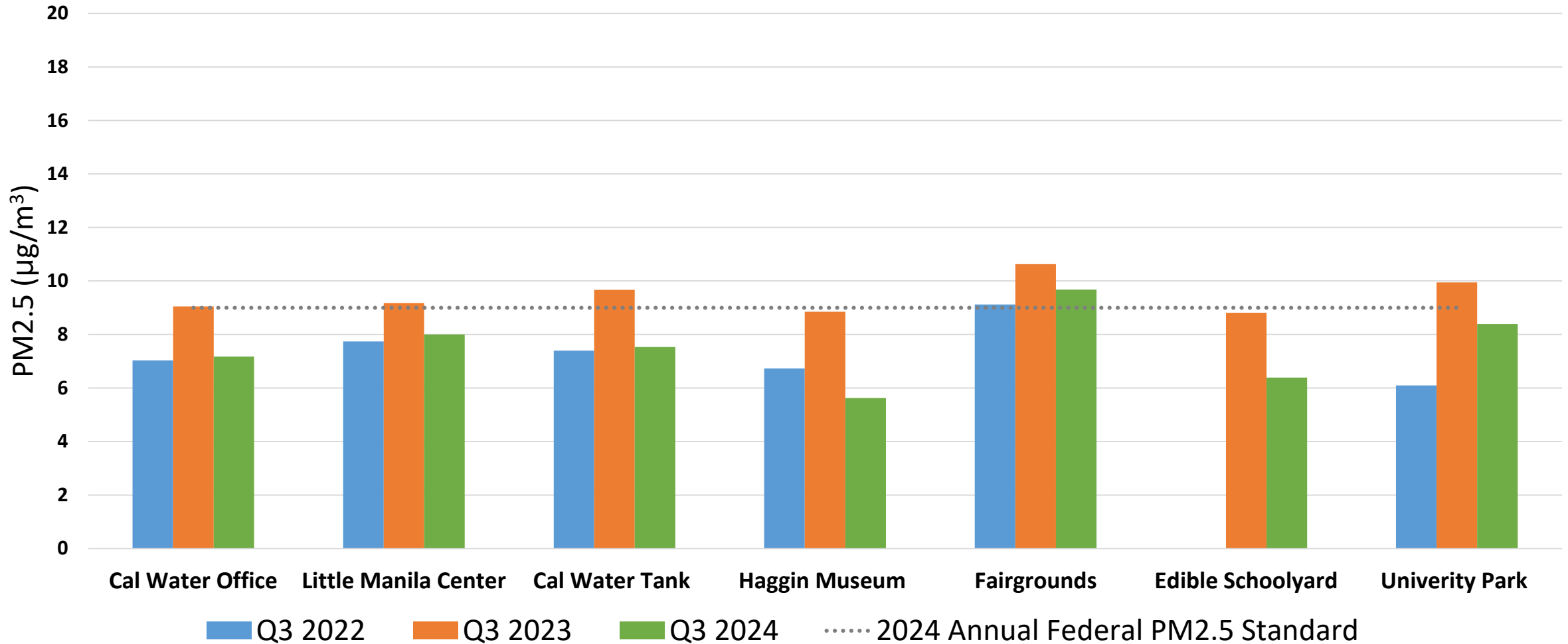
2024 Annual Average PM2.5 Comparison

2024 Average PM2.5 low at all sites, slightly lower than 2023



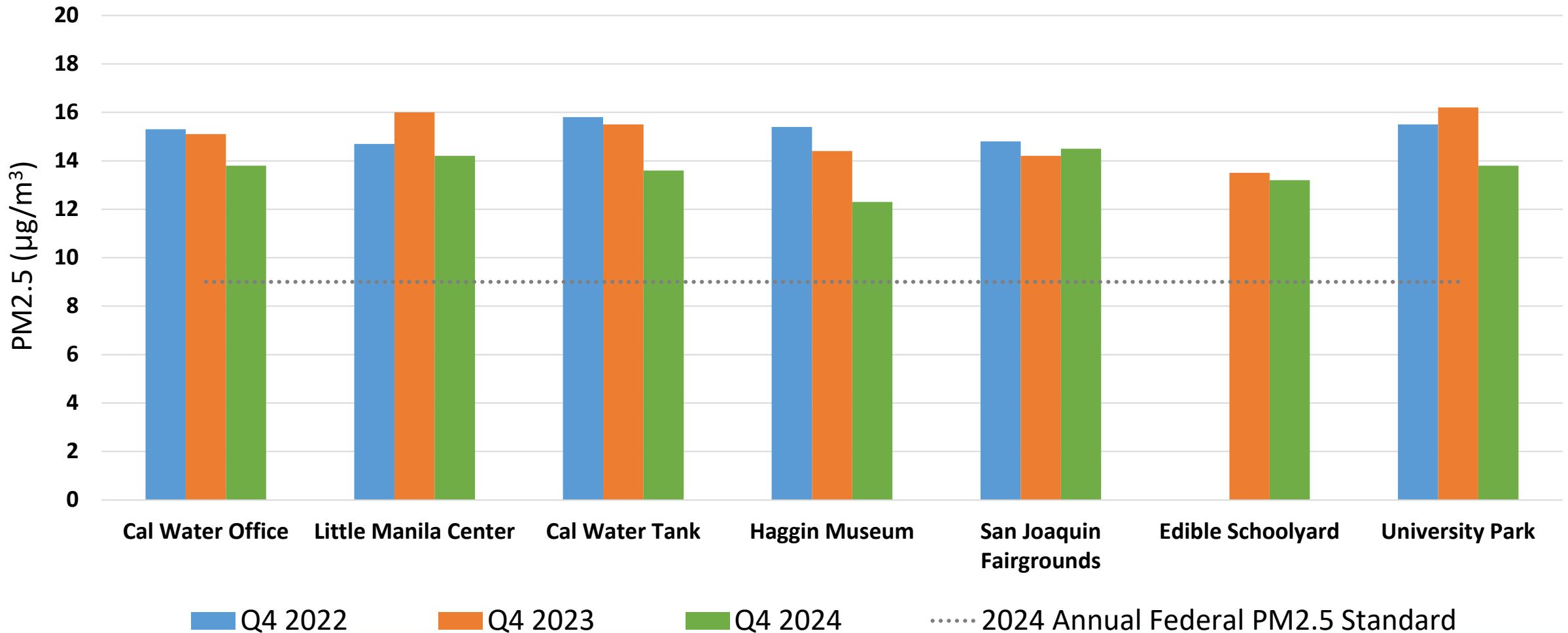
July - September Average PM2.5 Comparison

3rd Quarter PM2.5 slightly lower than 2023 but similar to 2022



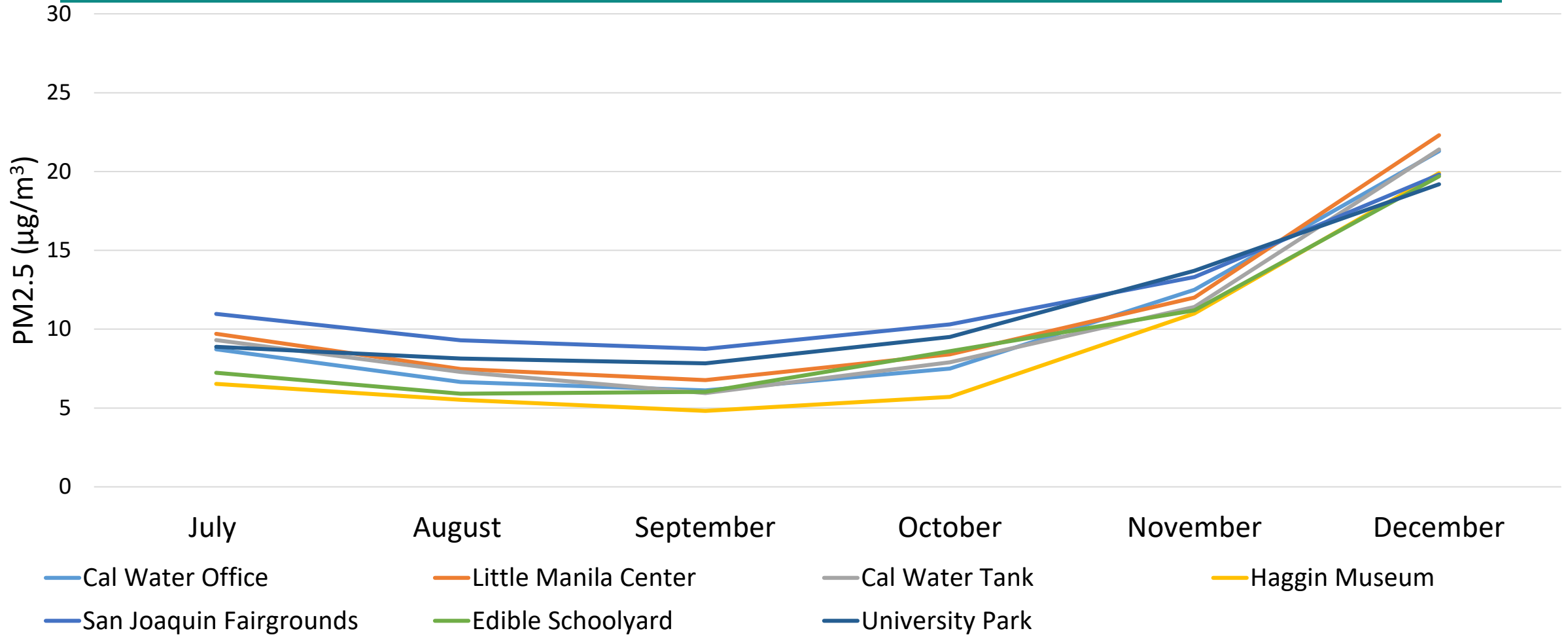
October - December Average PM2.5 Comparison

4th Quarter Average PM2.5 lower at all sites except Fairgrounds



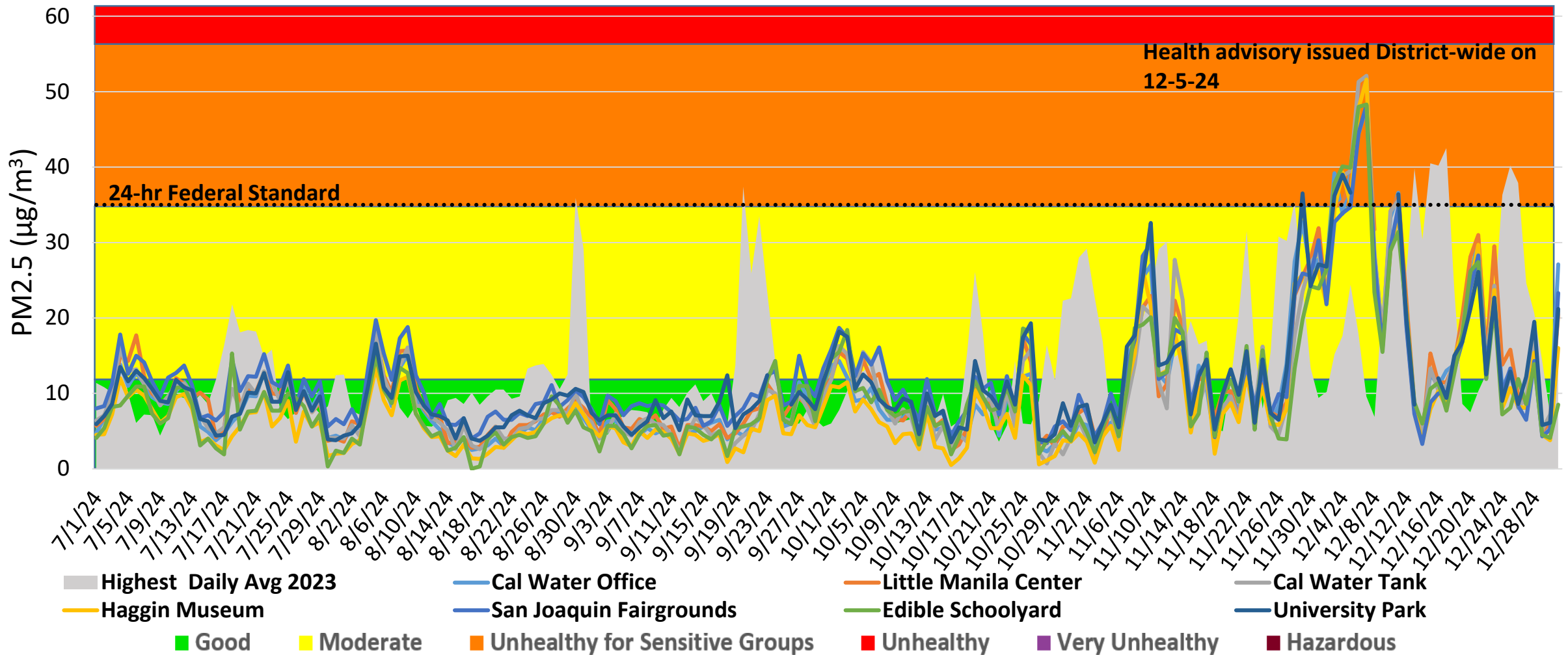
PM2.5 Monthly Average Comparison

Monthly PM2.5 average low at all sites



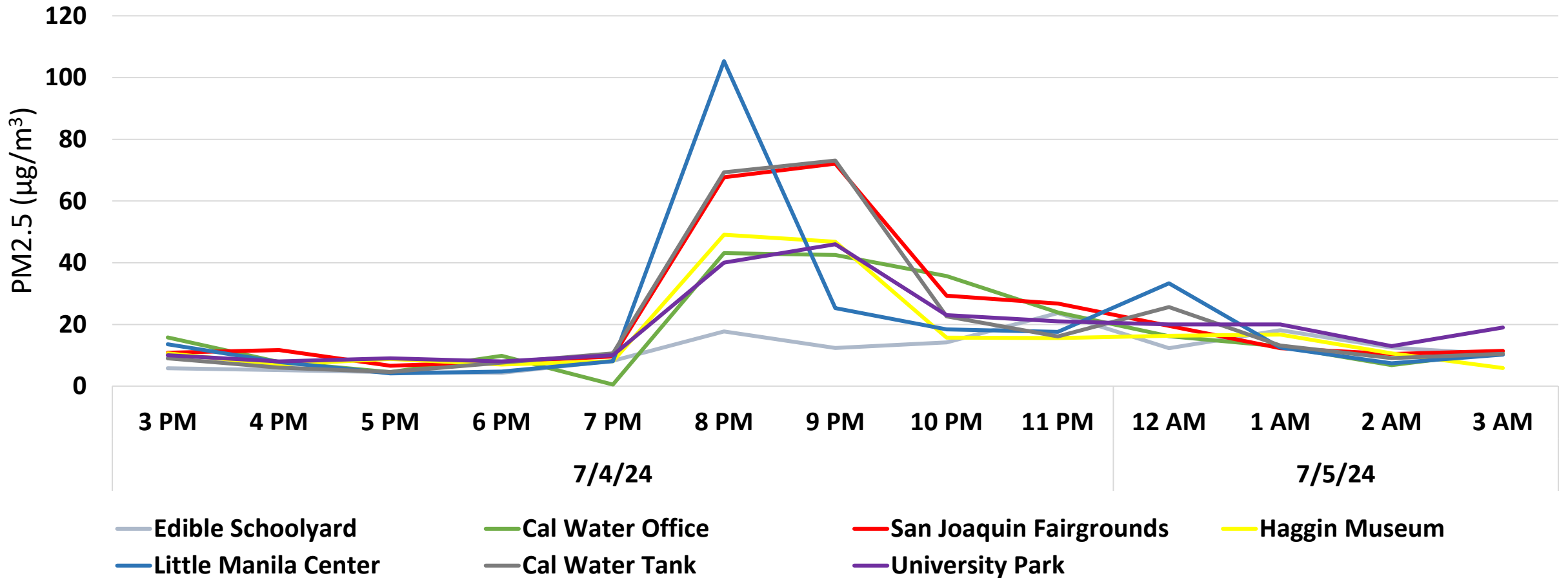
PM2.5 Daily Average Comparison

Cold, dry, and stagnant weather contributed to elevated PM2.5 in December



4th of July

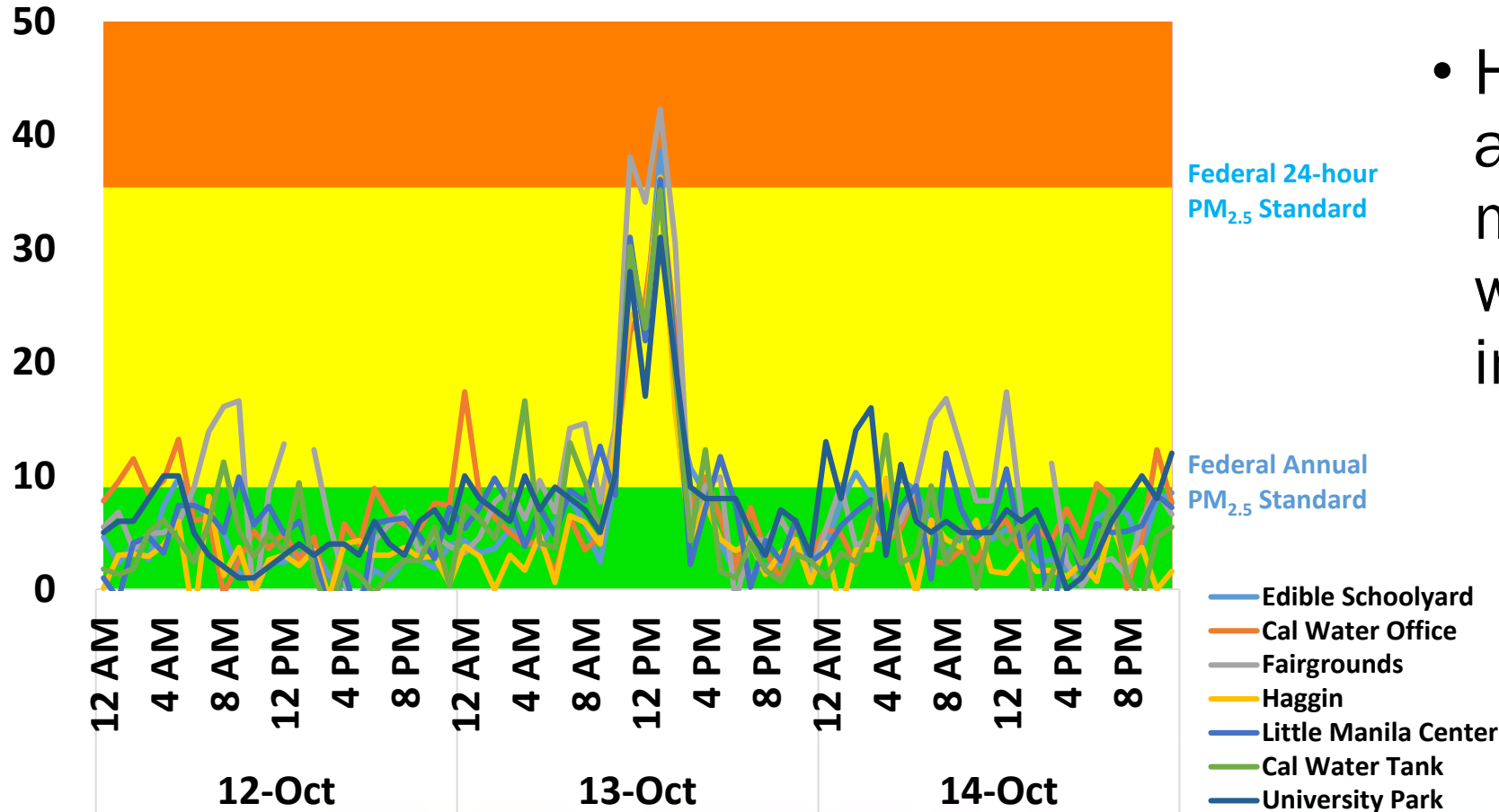
Highest PM2.5 spikes close to residential neighborhoods



Hourly PM_{2.5} Impacts from Smoke

Example of recent smoke impacts at Stockton community monitors from Shoe Fire

PM_{2.5} at Stockton Sites

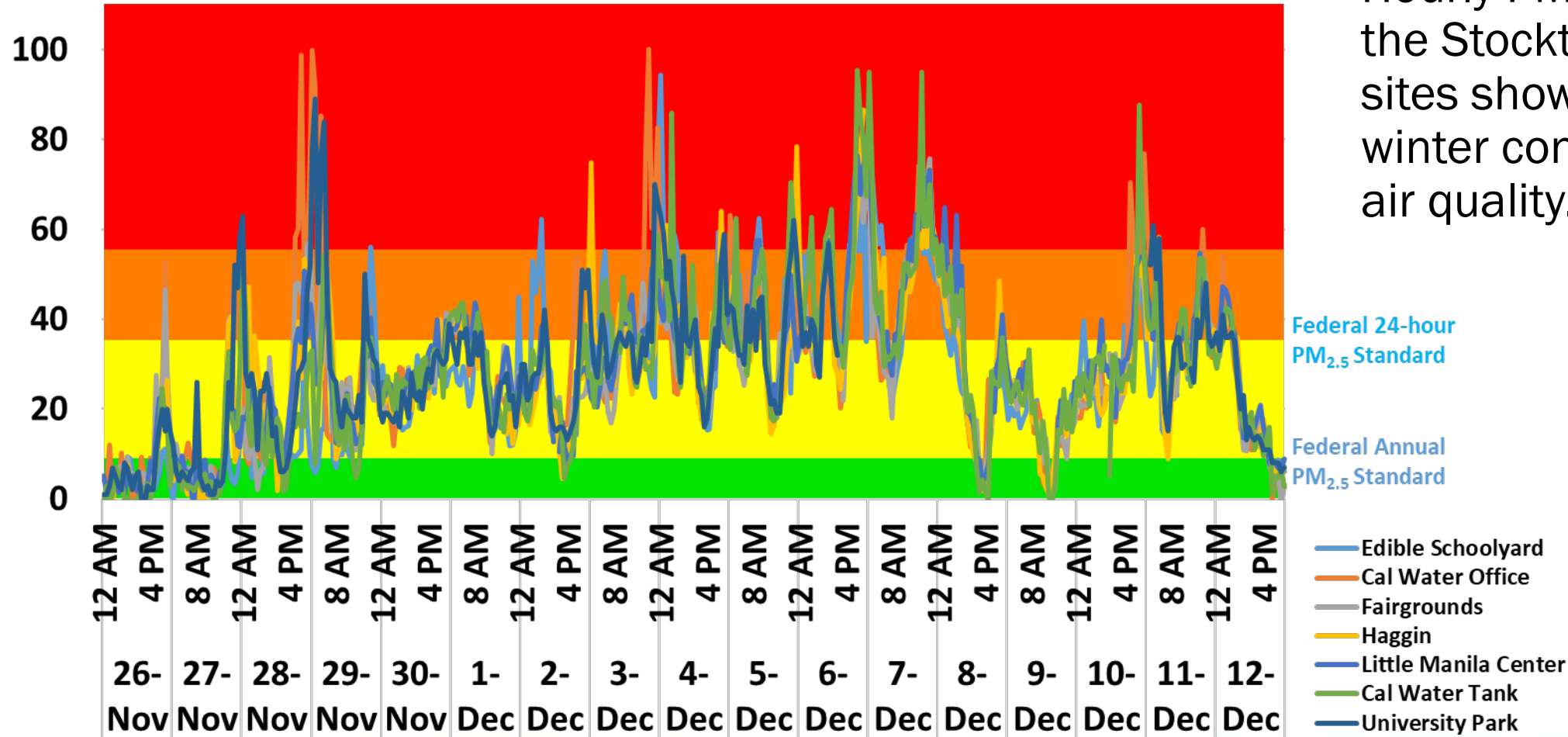


- Hourly PM_{2.5} readings at the Stockton air monitoring sites show when wildfire smoke impacts air quality.

Hourly PM_{2.5} Impacts from Stability

Example of recent impacts at Stockton community monitors from Wintertime stability.

PM_{2.5} at Stockton Sites

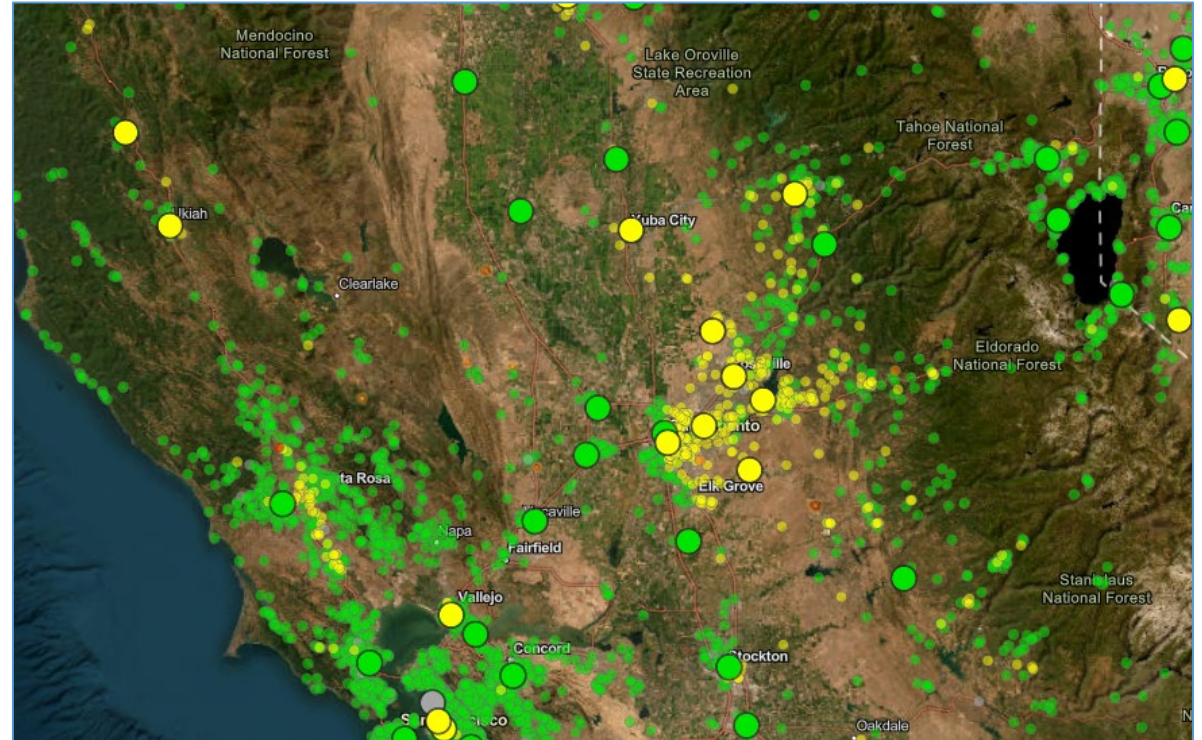


- Hourly PM_{2.5} readings at the Stockton air monitoring sites show when stable winter conditions impact air quality.

Example of Smoke Visible on the Satellite



- AirNow Fire and Smoke Map is helpful to indicate when smoke is present at ground level

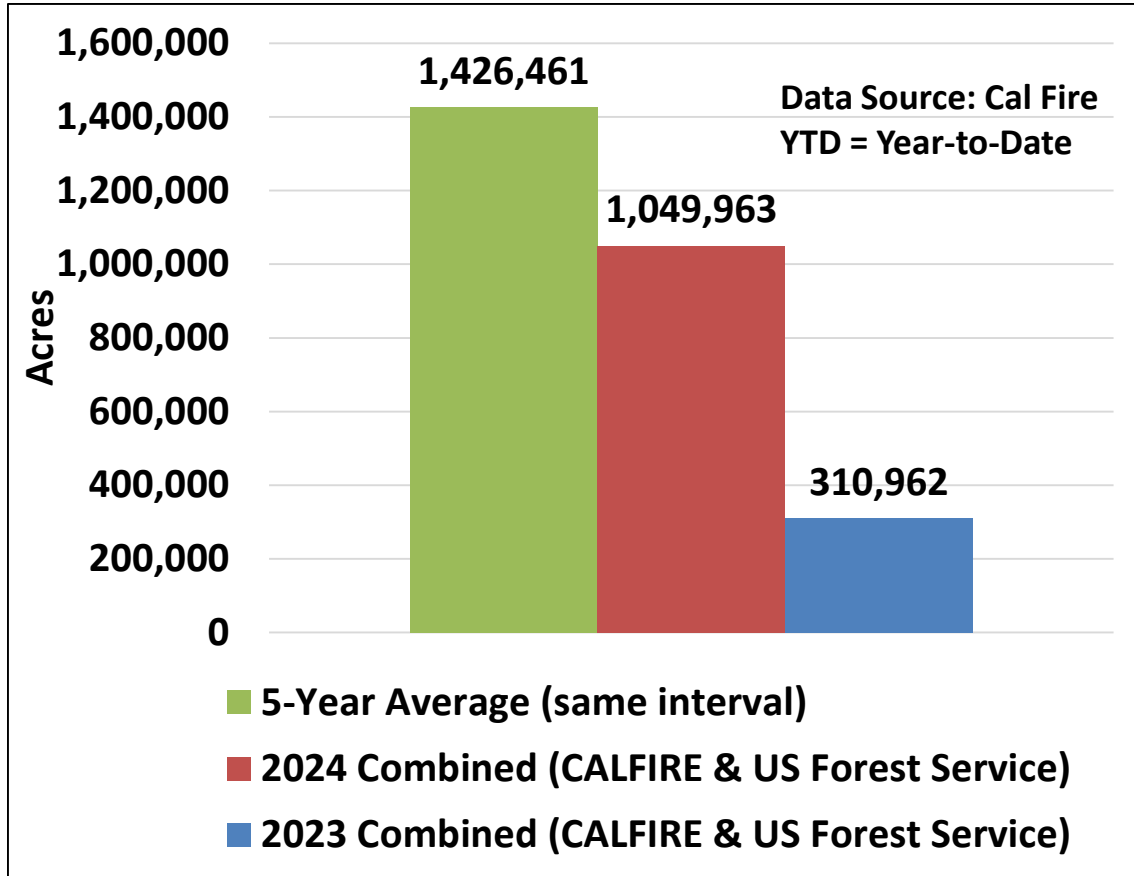


- The Shoe Fire started on Wednesday, 10/9
- Smoke traveled south over San Joaquin County and Stockton area.

<https://fire.airnow.gov/>

California Wildfires in 2024

California Wildfires in 2024



Wildfires Impacting SJ County in 2024

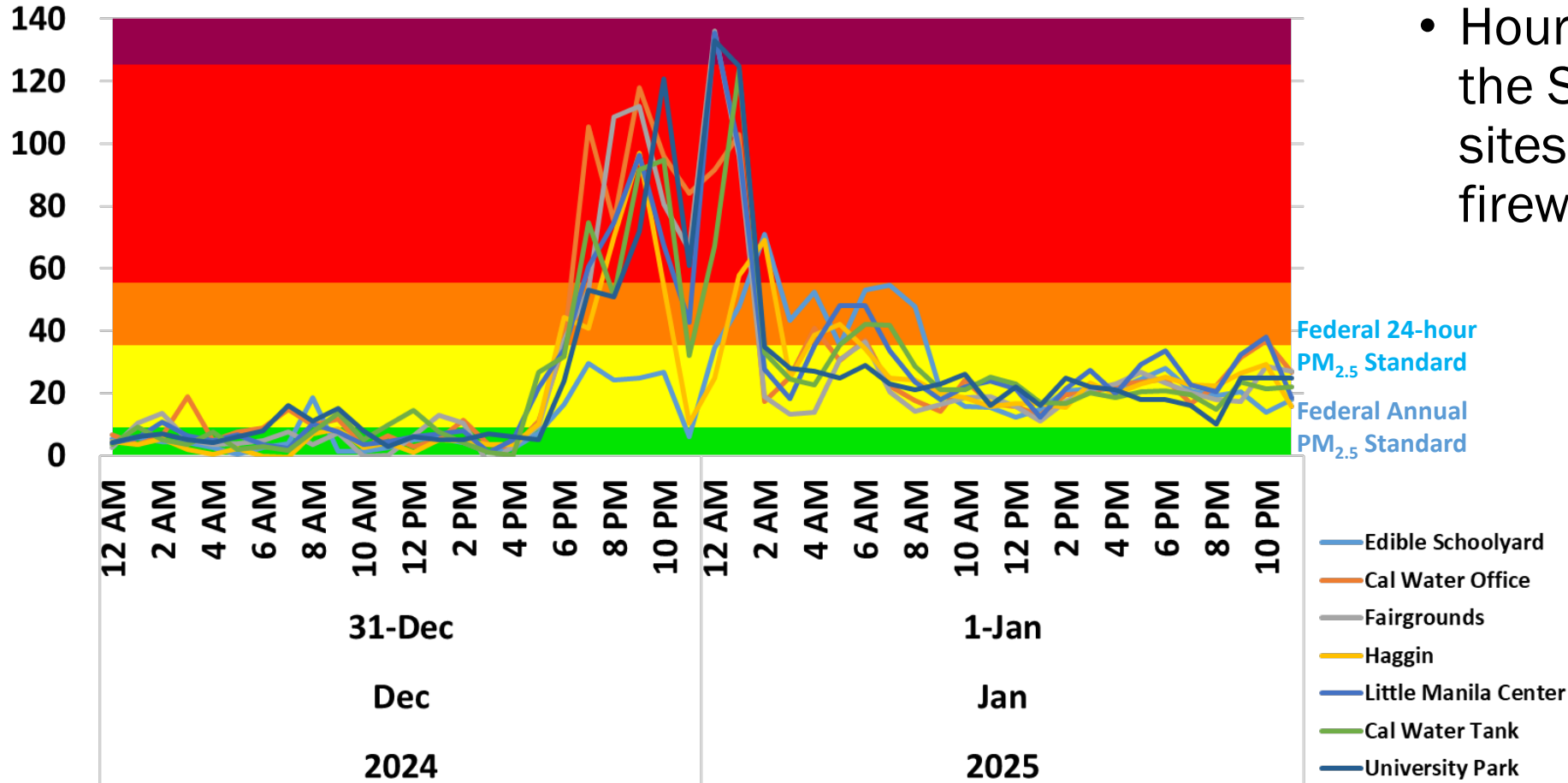
Start Date	Wildfire Name	Acreage	County Location
6/1/2024	Johnson Fire	20	San Joaquin
6/13/2024	Flood Fire	58	San Joaquin
6/24/2024	Liberty Fire	104	San Joaquin
6/27/2024	Hollow Fire	210	San Joaquin
6/28/2024	1-2 Fire	215	San Joaquin
7/19/2024	Aero Fire	5,425	Calaveras
6/17/2024	Corral Fire	14,168	San Joaquin
6/17/2024	Sites Fire	19,195	Colusa
7/24/2024	Park Fire	429,603	Butte, Tehama
7/30/2024	Pedro Fire	2,722	Mariposa, Tuolumne
10/09/2024	Shoe Fire	5,124	Shasta
11/21/2024	Duck Fire	73	San Joaquin

2024 wildfire season is more active than recent years. Few fires have been near the Stockton area.

Hourly PM_{2.5} Impacts from NYE Fireworks

Example of recent impacts at Stockton community monitors from NYE fireworks.

PM_{2.5} at Stockton Sites



- Hourly PM_{2.5} readings at the Stockton air monitoring sites show how NYE fireworks impact air quality.

How can the District make sure the community knows that we expect worse air quality?



NEWSRelease



www.valleyair.org

24hr Media Cell Phone (559) 309-3336

For immediate release 12/5/24

Media Contact

Jaime Holt (559) 309-3336

Spanish-language contact

Ana Stone (559) 230-5851

Attn: Local news, weather, health and assignment editors

High pressure trapping pollution in the Valley, Officials Issue Advisory

Air quality officials encourage limiting pollution generating activities

Air quality officials are advising San Joaquin Valley residents that local conditions are cold, dry and stagnant, causing PM2.5 emissions (particulate matter pollution) to accumulate, resulting in higher pollution concentrations throughout the Valley air basin. The air basin includes the counties of San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and the Valley portion of Kern. The Valley Air District has issued an air quality advisory due to strong nighttime inversions and minimal winds are trapping pollutants on the Valley floor. The District strongly urges the public to take health-protective actions to stay safe when high PM2.5 levels affect the Valley, including following [air-quality recommendations](#) when making decisions about outdoor activities.



- News releases are issued before known and expected high pollution days
- District posts updates to social media sites like Facebook, X, and Nextdoor
- Keep health departments and schools notified



Valley Air District

Published by Hootsuite




July 19 · 🌐


Are you [#SmokeReady](#)? Visit our wildfire resource page for health tips and fire information. Remember, if you can see ash or smell smoke, you are being impacted by particulate matter pollution. Learn more at www.valleyair.org/wildfires.

[#ValleyAirDistrict](#) [#Wildfire](#) [#Smoke](#)

How can the District make sure the community knows that we expect worse air quality?

 **Valley Air District**
@ValleyAir Follow

The Valley Air District has issued an air quality advisory due to strong nighttime inversions and minimal winds trapping pollutants on the Valley floor. The District strongly urges the public to take health-protective actions to stay safe. valleyair.org/news



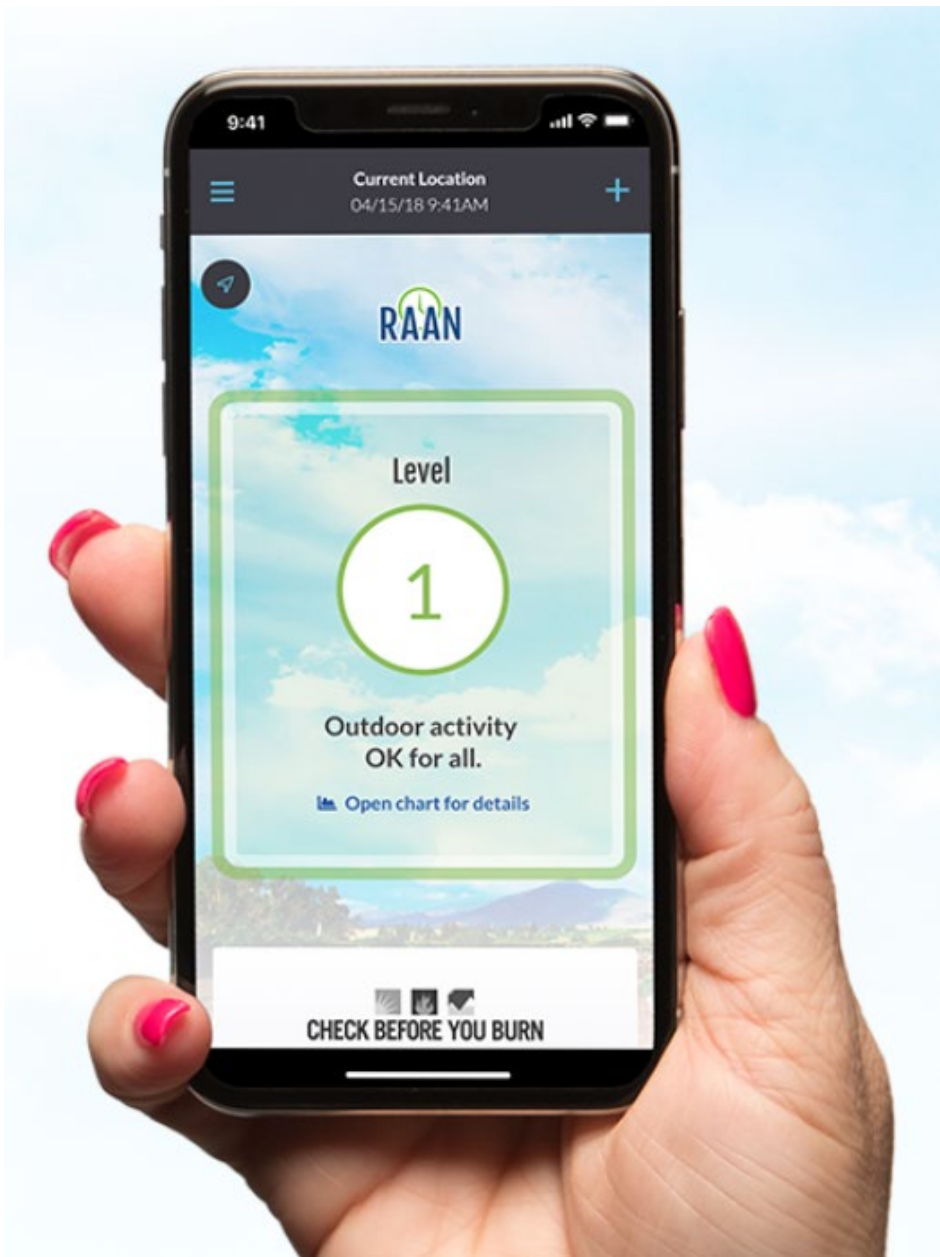
4:40 PM · 12/5/24 · 5.4K Views

 **Valley Air District** @ValleyAir · Jul 31 Promote ...

With continuing active fires in CA, there is the potential for smoke impacts valley-wide. If you can smell smoke and see ash, that is an indication that you are being affected by poor air quality. Prepare now by visiting: valleyair.org/wildfires



17



How to File an Air Pollution Complaint

Complaints may be filed online, by phone, or by using the Valley Air app on your smart phone

- Complaints are responded to 365 days a year
- Your information is confidential
- Filing a complaint will put you in touch with an Air Quality Inspector assigned to the complaint

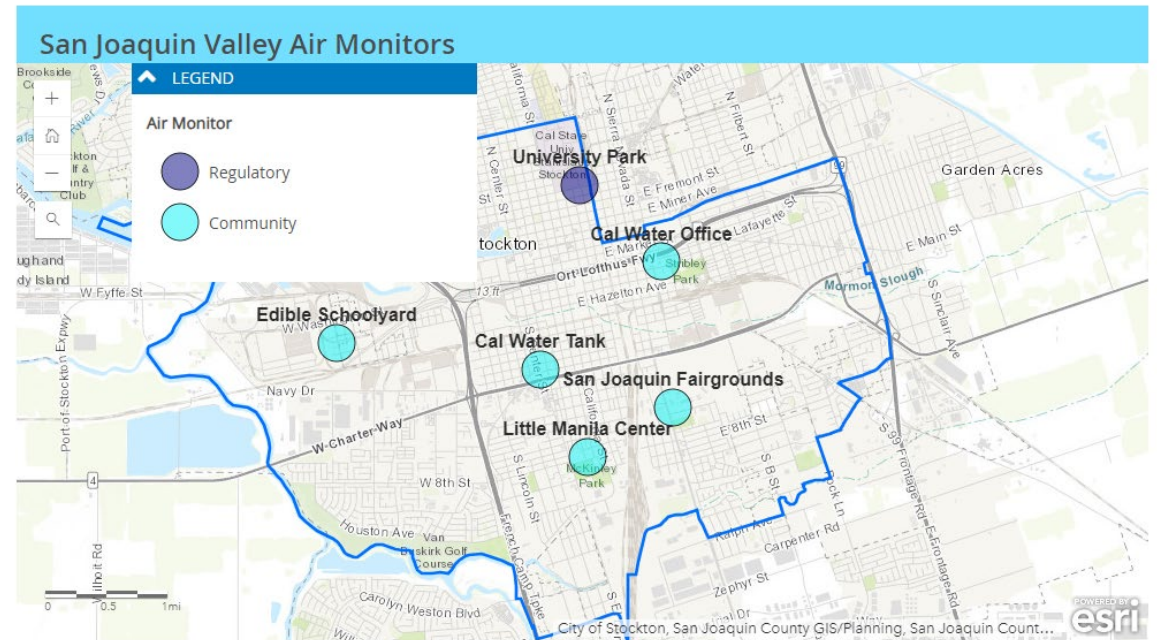
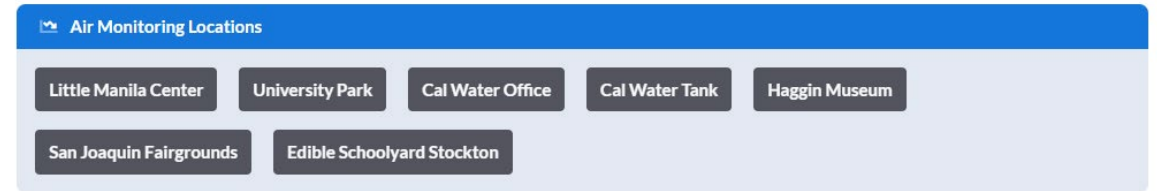
San Joaquin, Stanislaus, Merced

 [\(800\) 281-7003](tel:(800)281-7003)

valleyair.org/complaints

Community Air Quality Data

- District AB 617 webpage at: <http://community.valleyair.org/community-air-monitoring>
 - Real-time community air monitoring data
 - Quarterly reports
 - Weekly air monitoring updates



Comments/Questions?