Right to Breathe: East Oakland Community Air Quality Justice Plan

Community Steering Committee Meeting #33
Year 1 Implementation

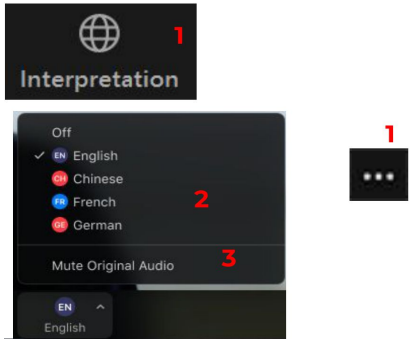
November 12, 2026

Bay Area Air District

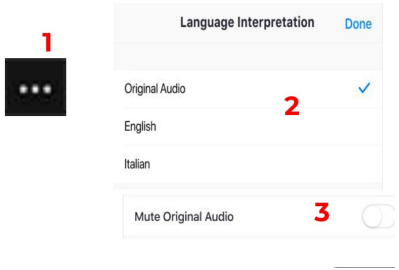
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Welcome to the CSC Meeting!

Co-Chairs:

Aiyahnna Johnson

Mr. Charles Reed

Mykela Patton

Meeting Objectives

CSC members will:

1. Review revisions made to the Draft CSC Charter since the September CSC meeting, ask clarifying questions, and vote on the proposed new Charter.
2. Review and provide feedback on the Ad Hoc's recommended **Top 10 Priority Topics for CSC Engagement in Year 1** and its **Subcommittee** recommendation.
3. Learn about community-led air monitoring projects underway in East Oakland, including projects led by Lifers Leaving a Legacy, New Voices Are Rising, and CBE.
4. Learn about the nomination process and timeline for electing the next Co-Chairs.
5. Recognize the inaugural Co-Chairs for their dedication, leadership, and contributions to the CSC.

Meeting Agenda

6:00 PM Welcome (10 mins)

6:10 PM Charter Vote (10 mins)

6:20 PM Year 1 Implementation Plan Presentation (20 mins)

6:40 PM Break (5 mins)

6:45 PM Year 1 Implementation Plan Activity (35 mins)

7:20 PM Community-led Air Monitoring Project (15 mins)

7:35 PM New Co-Chairs Process and Timeline (10 mins)

7:45 PM Recognition of Current Co-Chairs (10 mins)

7:55 PM Next Steps & Close Out (5 mins)

CSC Meeting Agreements

- 🎤 **One mic, one voice:** If in person, raise your hand to speak. If on Zoom, use Raised Hand function
- 🪷 **Have grace** for ourselves and one another
- 🍵 **Take care** of yourself (Stretch, drink water and breathe)
- ✨ **Mutual respect, empowerment and active listening** for all participants
- ⏰ To allow everyone to participate, please **limit your comments to a speaking time of 2 minutes**. We will actively give reminders and alerts
- 🍿 **'Popcorning' or passing the mic** method will be used to encourage participation amongst CSC members
- ❓ **For any questions throughout the meeting:** If in person, please raise your hand to ask a question. If on Zoom, in addition to hand-raising, you may also use the Zoom Chat.



"Nature's Praise"
Artist: Zoe Boston
Source: Oakland Murals

Community Building

- **In-person attendees** are encouraged to connect with fellow participants during the dinner and meet-and-greet.
- **Virtual attendees,** please type into the Zoom Chat:
  - Your Name and Pronouns
  - Any affiliated organizations
- **Community building on Zoom:** Use Chat and the Reaction emojis to inspire and encourage one another

CSC Charter Vote

Aneesh Rana, Air District

New Charter for CERP Implementation

Recap of Proposed Changes:

- **CSC Role & Structure** - Clarifies CSC responsibilities during implementation and expands CSC leadership roles through Subcommittees and Ad Hoc groups
- **Leadership** - Establishes two Co-Chair positions with two-year, non-consecutive terms and updated roles and responsibilities
- **Meeting Structure** - Establishes quarterly public CSC meetings, with opportunities for implementation work between meetings
- **Governance & Administration** - Updates participation and attendance expectations; simplifies recruitment, vacancy, stipend and reimbursement provisions; clarifies resignation and removal processes

The CSC remains a community advisory body throughout the five-year implementation period.

CSC Charter Review and Feedback

- **September 10** - Proposed Charter presented at CSC meeting
- **September 17 and 22** - Office hours for questions and feedback
- **September 27** – deadline for CSC members comments and edits
- **No written comments or suggested edits received** from CSC members or during office hours
- **No substantive revisions** were made to the proposed Charter presented in September

CSC Consideration and Vote

The vote is to adopt the Proposed Charter.

Roll call vote of voting CSC members

Year 1 Implementation Plan

Diana Perez-Domencich, Air District

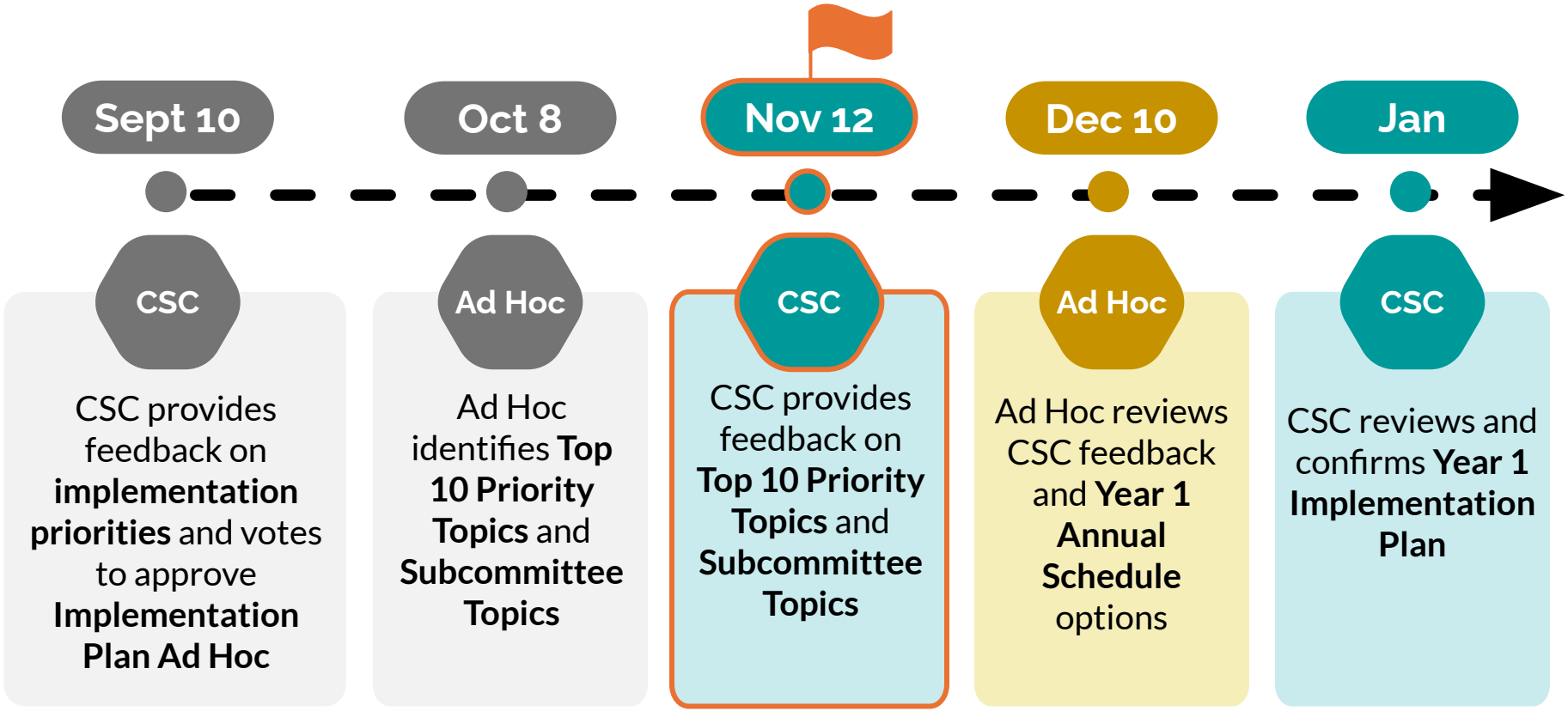
What is the Year 1 Implementation Plan?

- Identifies actions for Year 1 implementation: October 2026–September 2027
- Aligned with CSC priorities
- Includes actions that are already underway or could feasibly begin during Year 1
- Identifies opportunities for the CSC to be informed, consulted, or involved

Provides an **Annual Schedule** that includes:

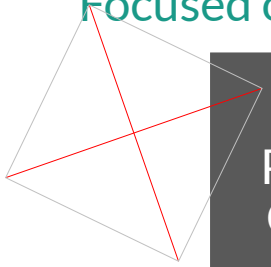
- Quarterly CSC meetings
- Topical meetings
- Subcommittee or Ad Hoc Working Group meetings
- Production of Annual Report and next year's Implementation Plan

Production Timeline: Year 1 Implementation Plan



Elements of the Year 1 Implementation Plan

Focused on Actions



- Priority Topics for CSC Engagement
- Subcommittee Recommendations
- Annual Schedule

Organizational Tools



- Meeting Structures
- CSC Engagement Levels
- CERP Chapter 9:
  - Roles
  - Reporting and Tracking Progress

CSC Levels of Engagement

- International Association for Public Participation (IAP2) **Spectrum of Public Participation** helps explain the public's role in an engagement process

- The Path to Clean Air CSC adapted this model for its implementation process

- We are borrowing PTCA's definitions of CSC levels of engagement to promote transparency and help the CSC understand **its role in each action and engagement opportunity**



Artist: Community Rejuvenation Project, Desi, Peskador
Source: Oakland Murals

CSC Levels of Engagement

Each engagement opportunity is classified as:

- **Informed**
- **Consulted**
- **Involved**

- Reflects the CSC's level of participation for that specific engagement opportunity at that specific point in time. **It represents a starting point**
- As implementation progresses, engagement opportunities may be **refined or expanded**, where feasible, in conversation with the action lead

CSC Levels of Engagement

Increasing Level of Participation

INFORMED	CONSULTED	INVOLVED
The lead implementer will keep the CSC informed.	The lead implementer will keep the CSC informed, listen to and acknowledge the concerns of the CSC and the community, and provide feedback on how the CSC input influenced the decision.	With the support of the lead implementer, the CSC will work directly with the community throughout the process to ensure that community concerns and input are consistently understood and considered.

Source: PTCA's Year 2 Implementation Plan, Table 1: CSC Levels of Engagement

Annual Schedule

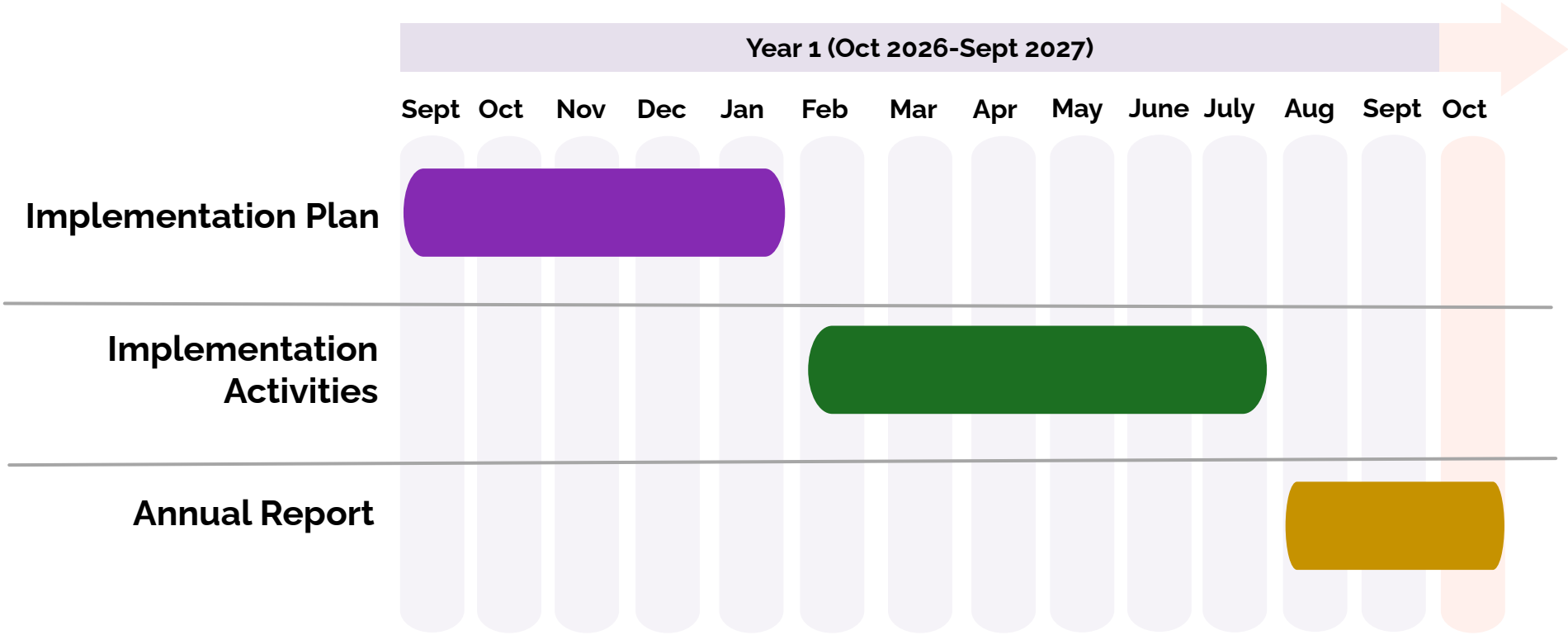
- Included in the **Year 1 Implementation Plan**
- Outlines **priority topics** for the upcoming year (with related engagement opportunities)
- Year 1 implementation cycle: **October 2026–September 2027**
- Aligned with **CSC priorities** and developed in **coordination with implementation leads**

Includes:

- Quarterly CSC meetings
- Topical "Deep Dive" meetings
- Subcommittee meetings (Standing or Ad Hoc)
- Production of Annual Report and next year's Implementation Plan

Reference: Chapter 9 of the CERP (p. 209)

The Year 1 Annual Schedule in Phases



Meeting Structures

Quarterly CSC Meetings

Definition: Public meeting with CSC. Convened by CBE, and Air District staff.

Cadence: Quarterly.

Eligible for Stipend

Topical "Deep Dive" Meetings

Definition: As needed meetings focused on one topic. Closed to the public.

Cadence: Up to 1 per month. (Up to 8 per year).

Eligible for Stipend

Subcommittee Meetings

Definitions: Consist of a small group of CSC members and are not open to the public.

A **Standing Subcommittee** would be formed for matters requiring an extended scope and duration.

An **Ad Hoc Subcommittee** would be created to handle a one-time special project and end once the project is completed.

Plan of Action: Sets specific and defined start and end times, roles, responsibilities, and expected outcomes by developing a Plan of Action that CSC votes to approve.

Cadence: A total of two (2) subcommittees (Standing or Ad Hoc) supported at any given time.

Eligible for Stipend

Recap of Implementation Plan Ad Hoc Subcommittee Meeting #1

- Meeting Date: October 8th 6-8PM
- Ad Hoc Membership:
  - Mykela Patton, *Co-Chair*
  - Erika Pascual
  - Andria Blackmon
  - Donna Murphy
  - Marina Muñoz



"Joaquin Miller Elementary"
Artist: Christina Xu
Source: Oakland Murals

Recap of Ad Hoc Meeting

At the October 8th Implementation Plan Ad Hoc Subcommittee Meeting, members:

- Learned about the **three levels of CSC participation**: Informed, Consulted, and Involved.
- Learned about the proposed **meeting structures** and purpose of the **Annual Schedule**.
- Reviewed **feedback results from the September CSC meeting #32.**
- Discussed and reached consensus on a recommendation for **Top 10 Priority Topics for CSC Engagement in Year 1**.
- Recommended establishing an **Urban Greening Subcommittee** to support CSC engagement during Year 1.

Top 10 Priority Topics for CSC Engagement in Year 1

Urban Greening	01	**UGW 2.1** Create a Resource to Help Prioritize Installation of Vegetative Buffers
Illegal Dumping	02	**ID 1.2** Illegal Dumping Prevention Community Outreach **ID 1.3** CSC Dissemination of Illegal Dumping Prevention Materials
I-580 Truck Ban	03	**T&M 4.1** Study Impacts of I-580 Truck Ban **T&M 4.2** Consider Racial Equity in Future Decision-making **T&M 4.3** Implement Findings from Racial Equity Assessment
Auto Body Facilities	04	**C&I 6.2** Gather Community Knowledge of Unpermitted Auto Body Facilities **C&I 6.3** Address Unpermitted Auto Body Facilities

Top 10 Priority Topics for CSC Engagement in Year 1

Rule 11-18	05	**C&I 2.1** Implement Rule 11-18: Reduction of Risk from Air Toxic Emissions at Existing Facilities
General Plan Update	06	**BE 3.5** Oakland's General Plan Update **UGW 3.1** City of Oakland Engages the CSC in the General Plan OSCAR Update
Enforcement	07	**C&I 7.1** Targeted Inspections to Address Repeat Violators **C&I 7.4** Regular Enforcement Updates
East Oakland Air Monitoring Project	08	**PH 3.1** East Oakland Air Monitoring Project **T&M 7.3** Investigate Airport Impacts on Nearby Air Quality

Top 10 Priority Topics for CSC Engagement in Year 1

Oakland San Fan Francisco Bay Airport — 09

T&M 6.1 Port Zero Emissions Plan Airport-specific Elements
T&M 7.1 Proactive Community Engagement on Airport Issues

Note: *The Port of Oakland is also prepared to provide updates on other Airport-related actions upon request.*

Fugitive Dust — 10

C&I 1.1 Rule Amendments to Address Fugitive Dust

Other Priority Topics Raised by Ad Hoc Members

CARB Truck Enforcement

T&M 1.4 Proactive Enforcement
T&M 1.5 Idling Prevention and Outreach
T&M 1.6 Enhance Diesel Program Enforcement
T&M 1.7 Heavy-Duty Diesel Trucks Inspections

Permitting Information

C&I 3.2 Provide Clear and Accessible Air District Permitting Information

Accessibility of Air Quality Data

PH 3.2 Make Air and Emissions Monitoring Data More Accessible

Ad Hoc Member Report Out

Donna Murphy, CSC Member

Ad Hoc's Subcommittee Recommendation



Vegetative Buffer installed at Brookfield Elementary School
Source: Air District

UGW 2.1 Create a Resource to Help Prioritize Installation of Vegetative Buffers (Lead: Air District)

- In support of the community greening actions, a Subcommittee (standing or ad hoc) could offer the CSC opportunity to co-develop community greening resources and project priorities

Breakout Activity

Karissa White, Air District

Small Group Discussion – 35 minutes

Activity Goal: Receive feedback from the CSC on the **Top 10 Priority Topics for CSC Engagement** and **Subcommittee Recommendation**.

Discussion Questions:

- How well do the Ad Hoc's recommended **Top 10 Priority Topics for CSC Engagement in Year 1** reflect the CSC's implementation priorities, and what, if anything, would you change?
- Do you support establishing an **Urban Greening subcommittee**? What questions, concerns, or recommendations do you have?



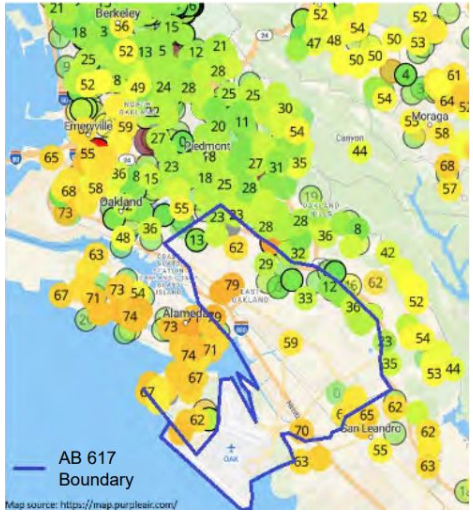
Community-led Air Monitoring Projects

Adele Watts, CBE
Mykela Patton, New Voices Are Rising
Mr. Charles, Lifers Leaving a Legacy

EO Air Monitoring Project Purpose

EAST OAKLAND AIR MONITORING PROJECT

- **Community Based Network**
  - Make real-time $PM_{2.5}$ data available in more places in East Oakland
  - Train community members to interpret air quality data and respond to air quality events
  - Build community ownership in air pollution monitoring
- **Mobile Monitoring**
  - Measure different types of air pollution across East Oakland in detail
  - Understand how pollution sources identified by the East Oakland community affect air quality
  - Identify pollution hotspots with elevated concentrations observed across multiple monitoring drives
  - Find opportunities for emissions and exposure reductions



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UC Berkeley

Bay Area Air District






$PM_{2.5}$ Sensor Network Overview

- Residences host an indoor and outdoor sensor pairs (whenever possible)
- Hosts provided air purifier and stipend
- From May 2025 to March 2026 CBE and UCB installed 64 monitors (33 indoors, 31 outdoors)
  - **35** residential sites
  - **3** schools
  - **2** community sites
- Community Engagement:
  - 2 training sessions
  - 4 informational sessions
  - 2 community events

Mobile Air Monitoring Overview

The Air District Meteorology and Measurement Mobile Team used its monitoring van to collect air pollutant measurements in East Oakland

- Monitoring took place from July 2025 to March 2026
  - 1,000+ miles driven
  - 120 hours of data
  - 36 individual drives
- Specialized instruments measure multiple gas and particle pollutants at 1-second intervals
  - Volatile Organic Compounds (VOCs)
  - Particulate Matter (PM)
- Focused near facilities, key corridors, and community assets identified by the East Oakland community





Key Takeaways

Community Based Network

- Outdoor $PM_{2.5}$ was higher in the winter and lower in the summer
- Elevated $PM_{2.5}$ outdoors can increase indoor levels
- Indoor $PM_{2.5}$ was often higher than outdoor because of activities like cooking, using incense, or other common household activities

Mobile Air Monitoring

- Repeated instances of high pollution concentrations identified areas needing further investigation
- VOCs, PM_{10} and nitrogen oxides (NOx) were found on multiple drive days
- High pollution levels were found near community identified sites of concern


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New Voices
Are Rising!
Learn more about our work
and youth engagement in
Oakland!

Rose Foundation's youth environmental justice leadership program



based in Oakland, we also work in East and West Contra Costa

we have a summer-long leadership academy and year-long fellowship


Youth work on topics like
Climate Resilience
Restoration
Environmental Advocacy
Food justice
In-home toxins
Water Quality Monitoring
Air Quality Monitoring


Youth take the lead on planning
Research projects
Garden Days
Restoration Days
Workshops
Social Media
Surveys
Focus Groups
Poetry Slams



Youth have done their own air quality monitoring

- **Learned the basics of how a low-cost air sensor works**
- Learned how to analyze and visualize PM data

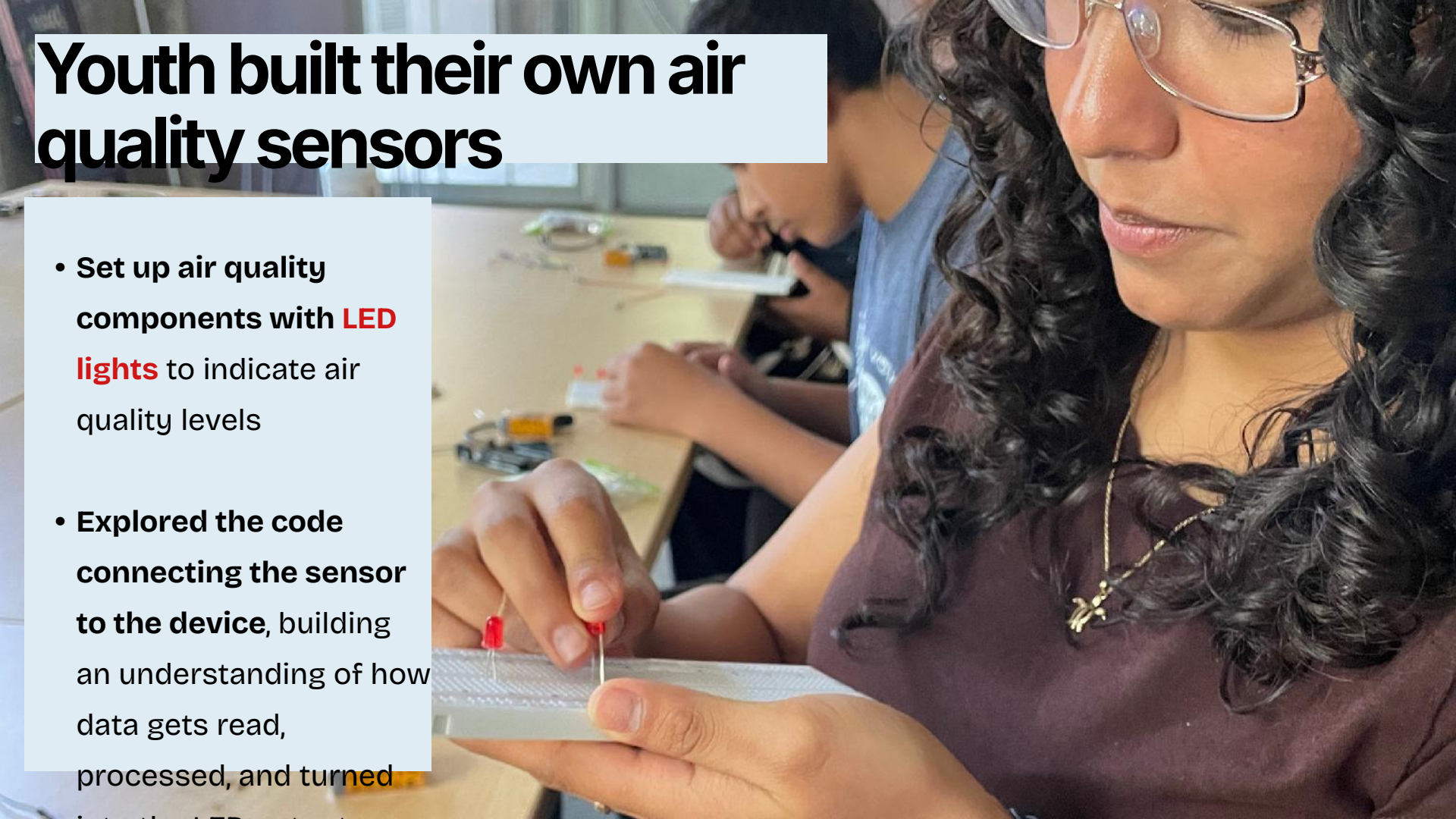


Jimmy & Ean's AirBeam3 session at the Port of Oakland, Oct 17, 2025.

Youth built their own air quality sensors

- **Set up air quality components with LED lights** to indicate air quality levels

- **Explored the code connecting the sensor to the device**, building an understanding of how data gets read, processed, and turned



Here is a photo of our East Oakland Purple Air Sensor



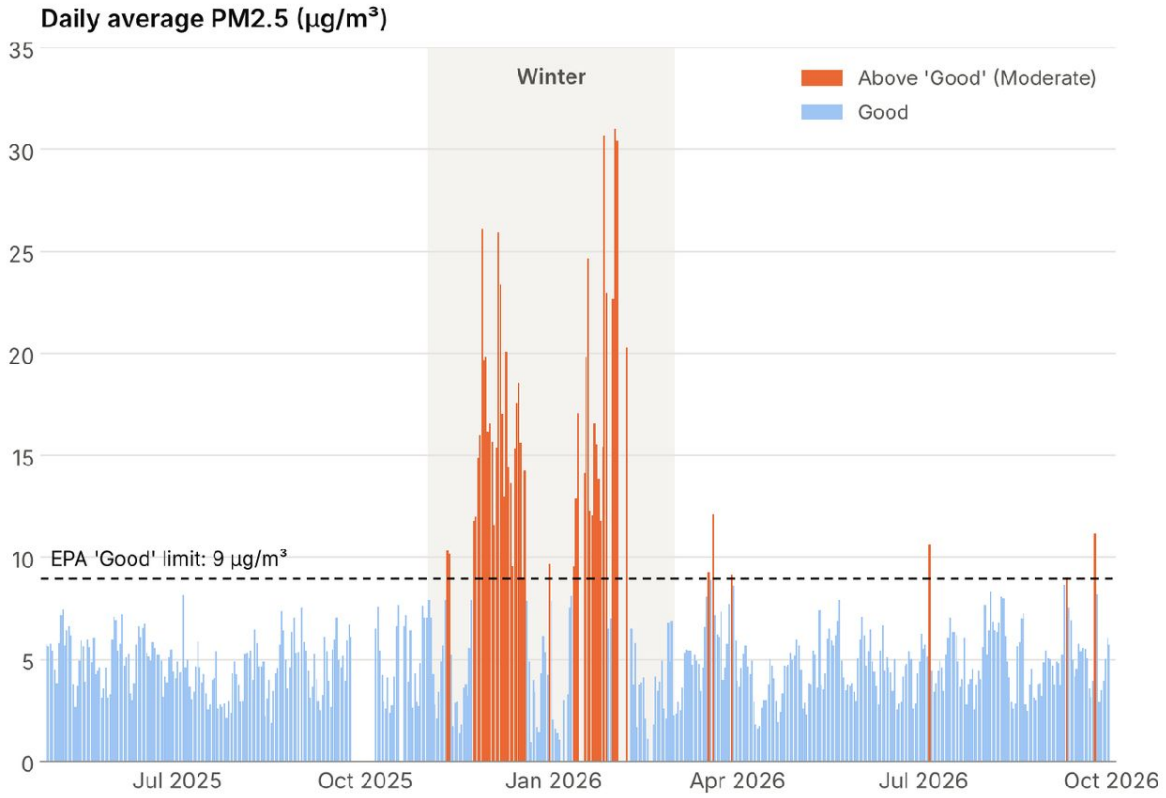
Located in **Brookfield Village**, it sits collecting **fine particulate matter** ($PM_{2.5}$) located near:

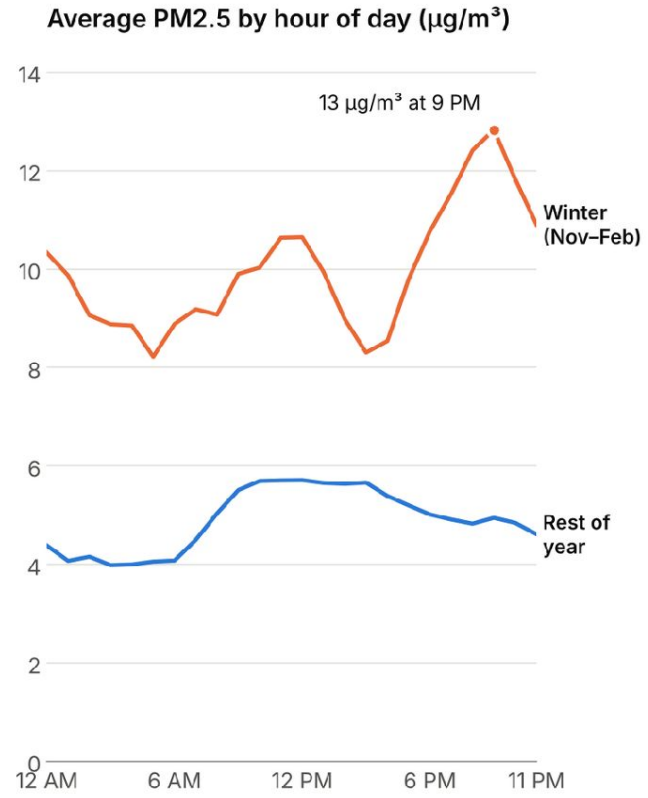
- **Oakland Airport**
- **Major truck routes**
- **Union Pacific Railroad**
- **Illegal Dumping Site**
- **I-880 Freeway**

and our findings from +1 years of data collection

Winter nights bring East Oakland's dirtiest air

48 of 54 days above the EPA 'Good' level fell between November and February, and pollution peaks around 9 PM





Source: PurpleAir sensor 254813 (East Oakland), hourly data Apr 28, 2025 – Sep 30, 2026. Corrected with the EPA PurpleAir correction; hours where the two sensor channels disagreed were removed; days need 18+ valid hours. Gaps in the daily bars are periods when the sensor was offline.

So what's causing the winter spikes?

- In winter, pollution builds through the evening and peaks around 9:00 PM at about 13 µg/m³.
- That pattern usually points to **combustion, most often residential wood burning**, trapped near the ground by cold, still nights. The rest of the year, the curve is flat and low.
- Wood smoke and diesel both emit black carbon. **PurpleAir can't tell those sources apart, which is why we need Black Carbon monitoring.**



Why Black Carbon monitoring?

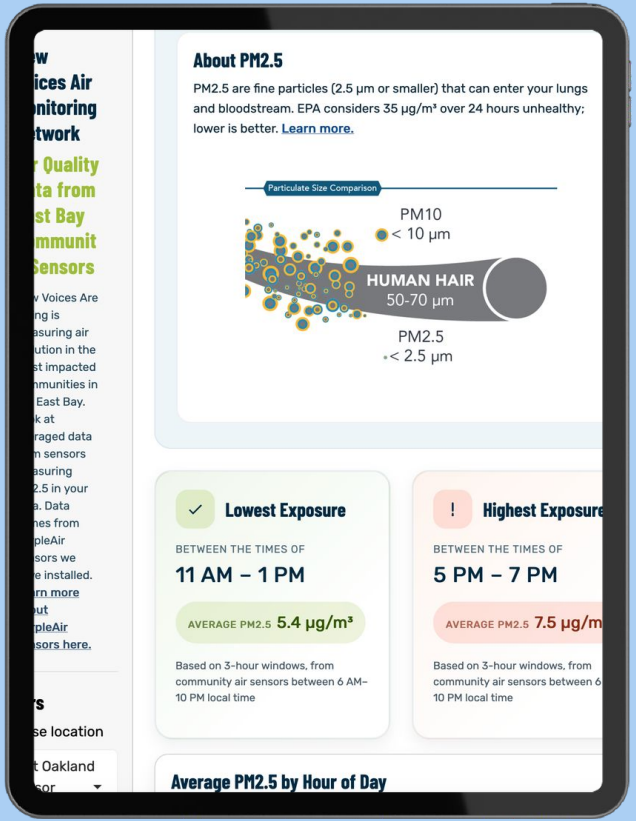
- **$PM_{2.5}$ tells us how much pollution there is, but doesn't tell us about the composition.** Black Carbon (BC) is a subset of $PM_{2.5}$ and is commonly used as a marker for diesel and other combustion sources.

- **Community advocates and studies have shown that BC is more informative than $PM_{2.5}$ for proximity and activity of local emission sources.**
  - And a Richmond, CA study found that winter matters for BC too. In that study, BC was about 3X higher in winter than late spring, while $PM_{2.5}$



after measuring $PM_{2.5}$ in East Oakland, we installed a **Black Carbon sensor at Esperanza Elementary**

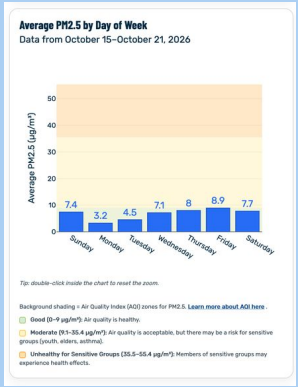
New Voices Air Monitoring Network

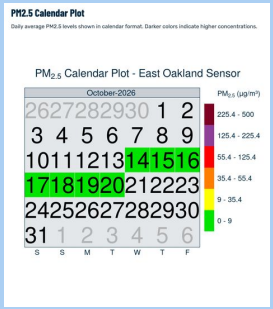


So how are we sharing our data?

PurpleAir's map only shows the past hour or day. Our webapp shows **air quality over any time period you choose**, from a single week to the full time we've been monitoring (**for the sensors in our project**).

https://roseairquality.shinyapps.io/apps/

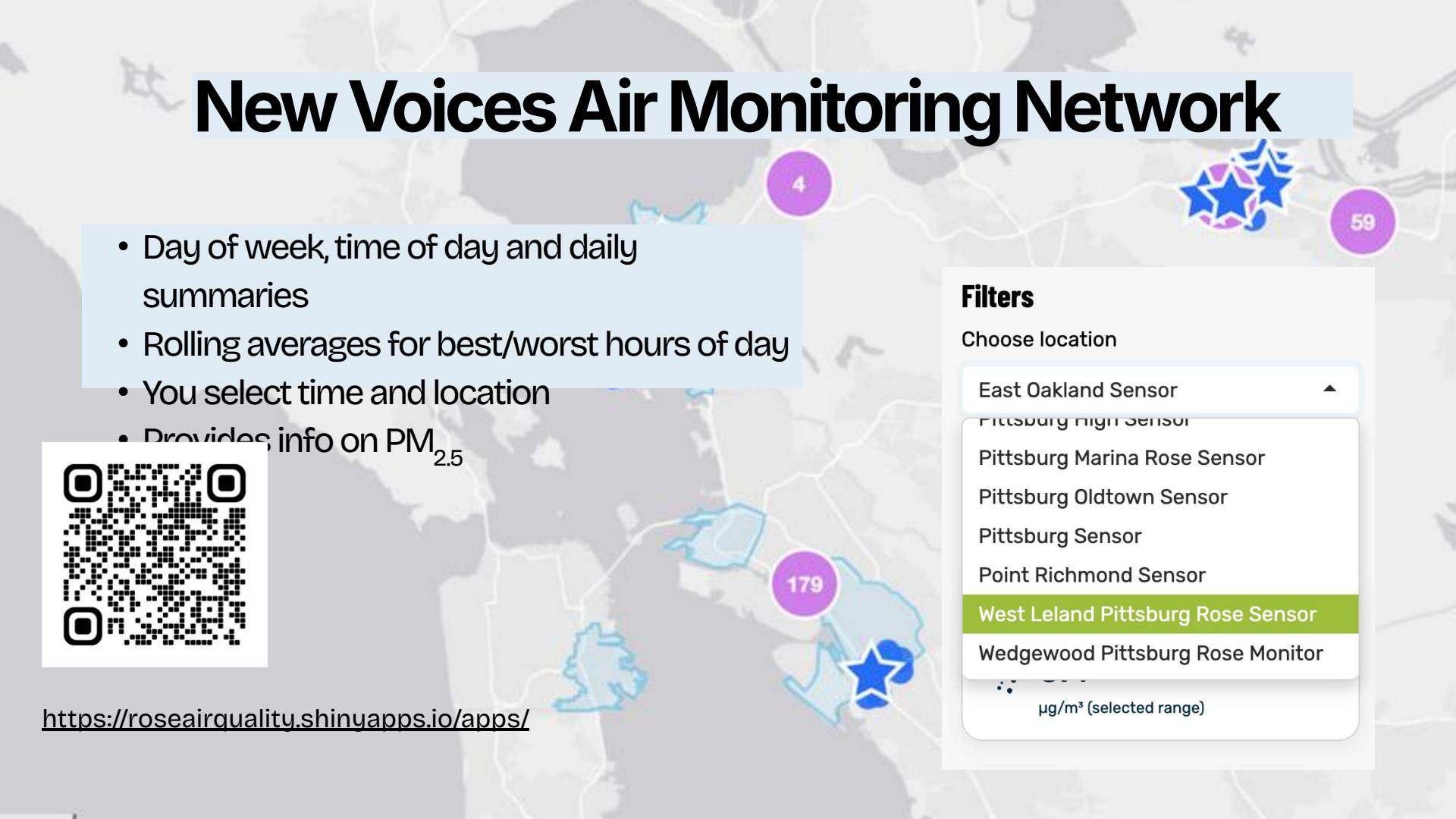




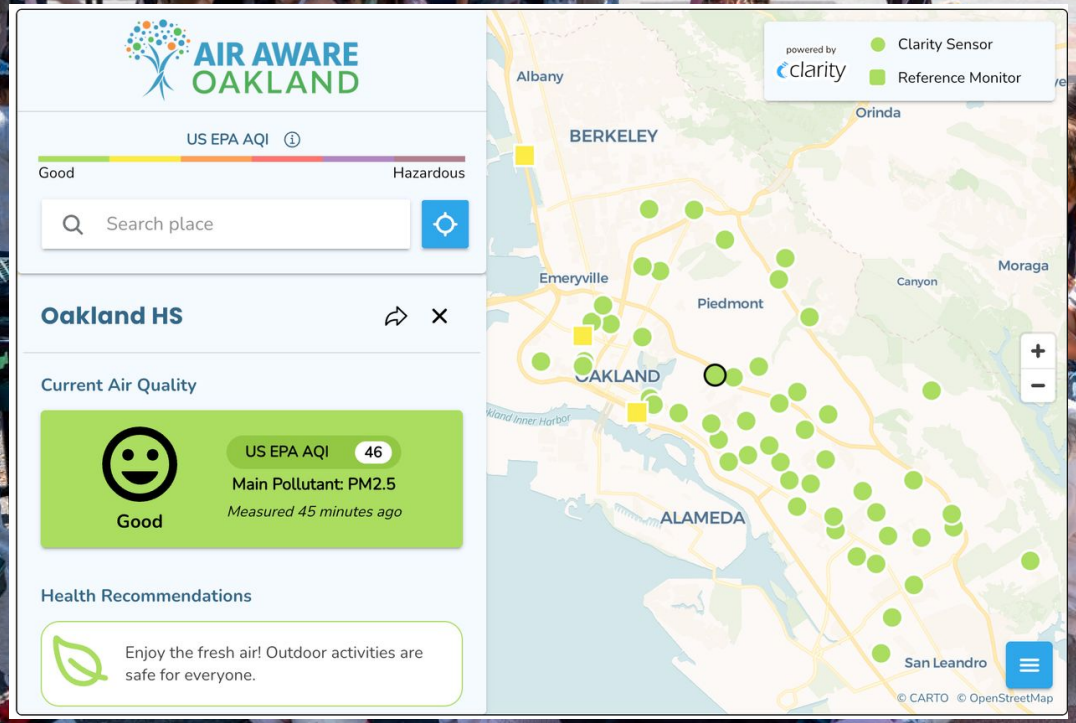
New Voices Air Monitoring Network

- Day of week, time of day and daily summaries
- Rolling averages for best/worst hours of day
- You select time and location
- Provides info on $PM_{2.5}$

https://roseairquality.shinyapps.io/apps/



Sequoia Foundation's: Air Aware Project



Our Black Carbon monitor adds to the larger Air Aware Network

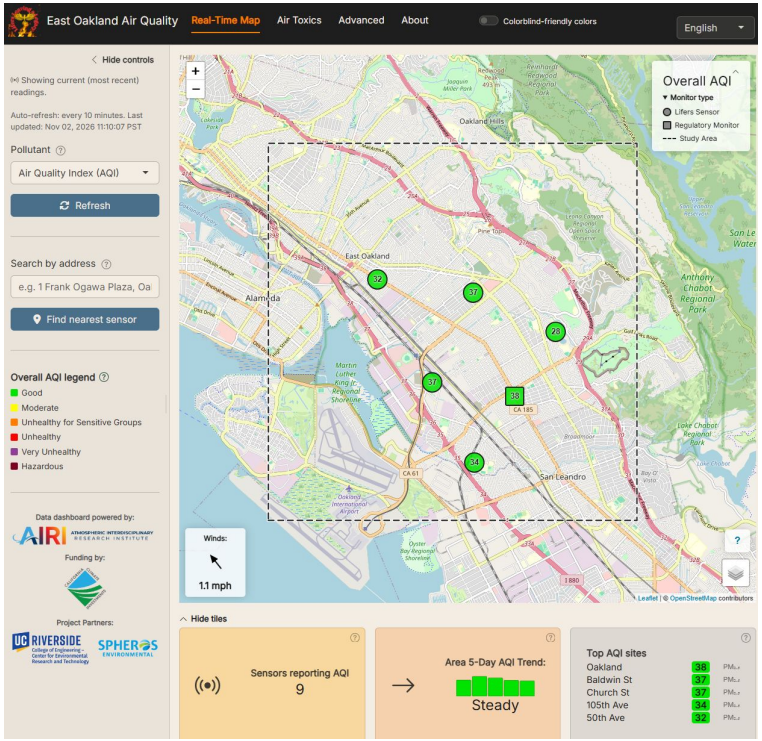
Air monitors are currently online at 56 Oakland Unified School District campuses, with plans underway to expand to 75.


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Thank You!
New Voices Are Rising!
Want to learn more?
• Contact Jacky Verduzco at jverduzco@rosefdn.org for more information!

Lifers' Leaving a Legacy: Community Air Monitoring Project

East Oakland Air Quality Dashboard

- This dashboard shares real-time and historical air quality data from **Lifers Leaving a Legacy's monitoring network across East Oakland.**
- Use a **Real-Time Map** to explore current conditions and trends of air pollutants impacting East Oakland.
- Visit the East Oakland Air Quality Dashboard



Screen capture from Lifers Leaving a Legacy's East Oakland Air Quality Dashboard.

Co-Chair Nomination Process

Aneesh Rana, Air District

Co-Chair Nomination Process

- The CSC will elect two new Co-Chairs
- Co-Chairs are voting members and may serve two-year terms, non-consecutive terms, January 2027 – December 2028
- Voting CSC members may self-nominate
- Co-Chair vote takes place at the January 2027 CSC meeting

Role and Responsibilities

What Does a CSC Co-Chair Do?

- Help facilitate productive dialogue and consensus-building and present during CSC meetings
- Serve as ambassadors for the CERP process in the community
- Meet regularly with Air District and CBE to provide feedback on quarterly CSC meeting agenda
- Required to attend at least 75% of regularly scheduled Co-Chair meetings

Interested in Serving as a Co-Chair?

Self-nomination and election process:

By December 14

- Email Aneesh Rana arana@baaqmd.gov, copy Anna Lee alee@baaqmd.gov
- Include a brief statement of interest and qualifications
- Air District collects and shares statements with CSC before January CSC meeting

January 2027 CSC Meeting

- Candidates share verbal statement
- Voting members vote for two Co-Chairs
- **No new nominations will be accepted during the meeting. Nominations must be received by December 14, 2026 at 11:59 PM.**

Recognition of Outgoing Co-Chairs

Anna Lee, Air District & Adele Watts, CBE

Next Steps & Close Out

Samuel Garcia, Air District

Feedback on Meeting

Fill out the post-meeting survey:

- English: https://forms.gle/B2SYLBNg6aUorF5u6
- Spanish: https://forms.gle/Du8m9thM85jyCy7p7



Created by Riski Ayu
from Noun Project

Next Steps:

1. Provide any additional feedback on **the Subcommittee Recommendation** and **Top 10 Priority Topics for CSC Engagement in Year 1 Implementation** by **11:59 PM on Sunday, November 15**
2. Air District staff will develop options for an **Annual Schedule** based on all CSC feedback gathered to date
3. Implementation Plan Ad-Hoc Subcommittee will hold Meeting #2: **Thursday, December 10th , 2026, 6-8 PM**
4. Next CSC Meeting: **Thursday, January 21st, 2027, 6-8 PM**

Thank You!