

MEMORANDUM

August 23, 2019

TO: Bay Area Air Quality Management District

FR: MIG, Inc.

RE: Summary of August 14, 2019 Richmond-San Pablo Area Community Air Monitoring Plan Steering Committee Meeting #6

The Bay Area Air Quality Management District (Air District) is partnering with the Richmond-San Pablo Area to develop a Community Air Monitoring Plan (Monitoring Plan) through the state of California's [Community Air Protection Program](#), also known as Assembly Bill 617 (AB 617). Community engagement is critical to the development of the Monitoring Plan to ensure a community-driven plan that reflects the community's values, needs and preferences.

The Air District recently formed a Steering Committee to advise the development of the Monitoring Plan and act as liaisons between the community stakeholders they represent by disseminating information and transmitting input as appropriate. The Steering Committee will: identify the monitoring plan boundary; identify areas of concern for air pollution; potential contributing sources; and vulnerable populations; review existing studies on air quality to provide input towards Plan development; and disseminate information and consider input from the broader community. Initial monitoring efforts began in July 2019. Steering Committee members are listed in Table 1.

On Wednesday, August 14, 2019, the Steering Committee (or Committee) held its sixth meeting at the Richmond Memorial Auditorium. Twenty-eight (28) Steering Committee members out of 35 were in attendance. A breakdown of the number of representatives by sector is available in Table 2. The meeting agenda and presentation materials are available in Appendix A. Jamillah Jordan of MIG provided meeting facilitation and ensured that key agreements and discussion topics were documented.

Table 1: Steering Committee Membership

Steering Committee Member Name	Alternate	Organization
Adam Oliver	Todd Osterberg	Chevron
Annie M. King-Meredith		Resident
Arnon Oren		Anaviv Catering
Boris Lukanov	Lee Ann Hill	PSE Healthy Energy
Bryana Gastelum		Resident
Cesar Zepeda		Hill Top Neighborhood
Demnlus Johnson	Adam Lenz	City of Richmond
Don Lau		Resident
Elizabeth Dunn		City of San Pablo
Dr. Henry Clark		West County Toxics Coalition
James Holland		Levin Terminal
James Lee		Richmond Chamber of Commerce
Janet Johnson		Sunflower Alliance
Jessica Range		Resident
Jill Rodby		Sims Metal
Joe L. Fisher		Coronado Neighborhood
John Anderson		Bay Area Rescue Mission
Julia Walsh		No Coal in Richmond
Kate Hoag	Kristen Law	BAAQMD
Katrinka Ruk	Fred Glueck	Council of Industries
Linda Whitmore		Santa Fe Neighborhood
Maria Martínez Resendiz		Resident
Marin Trujillo		WCCCUSD
Matt Holmes		Groundwork Richmond
Melvin Siegel		Resident
Mirna Cervantes		Multicultural Institute
Monique Davis	Anna Scodel	CARB
Dr. Naama Raz-Yaseef		Richmond Heights Neighborhood
Nain Villanueva de Lopez		First Five
Oscar Garcia		Iron Triangle Neighborhood
Paul Ehara		Idle No More / Rich City Rides
Randy Joseph		RYSE Youth Center
Dr. Rohan Radhakrishna	Dan Peddycord	Contra Costa Health Services
Roxanne Carrillo Garza	Pierre Thompson	Healthy Richmond

Steering Committee Member Name	Alternate	Organization
Willie Robinson		NAACP: Richmond Branch

Table 2: Steering Committee Membership by Sector

Sector	Representatives in Attendance	Total Representatives
Community-Based Organization/Nonprofit	8	12
Education	1	1
Government	3	5
Industry/Business	6	6
Resident/Neighborhood Group	11	11
Total	28	35

I. Welcome, Introductions and Roll Call

The sixth Steering Committee meeting initiated with a roll call to establish whether the Steering Committee members in attendance constituted a quorum. A quorum allows the Committee to vote on key decisions. According to the Steering Committee Charter, a quorum requires more than 50% of members in attendance to represent residents; this excludes members who are residents but represent other sectors during Steering Committee meetings.

As each Steering Committee member in attendance introduced themselves, Kristen Law of the Air District took attendance and kept track of how many members represented residents. Of the 28 Steering Committee members in attendance, 18 (64%) represented residents, which constituted a quorum. Jamillah Jordan reviewed the meeting format, which included presentations and a panel discussion with questions from the Steering Committee and members of the public.

II. Brief Recap of 7/10 Steering Committee Meeting

Following roll call, Nain Villanueva de Lopez, a member of the Co-Lead Team, recapped the 7/10 Steering Committee meeting and discussed the impetus for pausing the Committee's focus area discussions. The California Air Resources Board (CARB) will select the next communities for Emissions Reduction Plans and Community Air Monitoring Plans this Fall/Winter. The Steering Committee was asked to make a decision about their recommendation to CARB about whether or not to be selected this December as a Community

Emissions Reduction Plan area, and the Co-Lead Team decided to use the August Steering Committee to learn as much as possible so that the Steering Committee can make an informed decision. The Co-Lead Team invited guest speakers to present at the Steering Committee meeting to inform the vote for the Steering Committee recommendation at the September meeting. The Steering Committee will continue discussing the remaining focus areas for air quality monitoring at the September meeting.

III. Relationship Between the Emissions Reduction Plan and the Community Air Monitoring Plan

Monique Davis of CARB delivered a presentation on the relationship between AB 617 Community Air Monitoring Plans and Emissions Reduction Plans. She explained that CARB's Board of Directors is preparing to select the next round of communities that will be required to develop an Emissions Reduction Plan under AB 617. CARB has asked AB 617 Monitoring Plan communities to provide recommendations as to whether their communities should be selected for this upcoming round of Emissions Reduction Plans.

These recommendations are due October 2019 and CARB will announce the selected communities in December 2019. Selected communities will then have 12 months to develop an Emissions Reduction Plan, complete a public review process and Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA), and submit a final plan to CARB for review.

IV. Learning from the West Oakland Community Emissions Reduction Plan

Jamillah Jordan introduced Margaret Gordon and Brian Beveridge, who are representatives of the West Oakland Environmental Indicators Project (WOEIP) as well as Co-Leads of the West Oakland Community Action Plan process. Margaret Gordon and Brian Beveridge presented an overview of their process for developing the West Oakland Community Action Plan and explained that the West Oakland community had already conducted 10 years of air monitoring and identified emissions reduction strategies before starting the 12-month legislative clock under AB 617.

The presenters further explained that AB 617 provides an opportunity to create and enforce new rules outside of the Air District's purview. The presenters encouraged the Steering Committee to honor the process to ensure an Emissions Reduction Plan is informed by quality and defensible data. They also informed the Steering Committee that the time for developing

the plan is not one year, it is closer to six months due to the required Environmental Impact Report which felt rushed even with their decades of monitoring data and smaller geography.

V. Emissions Reduction Planning in the Richmond – San Pablo Community

Next, Tyler Earle and Greg Karras of Communities for a Better Environment presented their rationale for initiating an Emissions Reduction Plan in the Richmond area under AB 617 in December 2019. Tyler Earle and Greg Karras provided a brief overview of their organization's history and objectives and suggested that the Richmond – San Pablo Area has conducted sufficient monitoring in the past to support new rule-making in an Emissions Reduction Plan. The presenters emphasized refinery rules and the urgent need to target Richmond – San Pablo's largest known polluters.

VI. Current Emissions Reduction Efforts

Greg Nudd of the Air District delivered a presentation on ongoing and upcoming emissions reduction efforts in the Richmond – San Pablo Area that are occurring outside of the AB 617 program. He discussed past refinery rules, new toxics and refinery rules, changes to permitting programs and additional funding for clean transportation.

VII. Panel Discussion

After the four presentations, the six presenters were invited to answer questions. The Steering Committee was asked to direct their questions to specific presenters. The questions raised were regarding CARB processes, the status and technical foundation of the West Oakland Community Emissions Reduction Plan and indoor air pollution in the Richmond – San Pablo Area.

Julie Walsh clarified with CARB that AB 617 will fund one, comprehensive Emissions Reduction Plan for the Richmond – San Pablo community. In response to a question by Dr. Naama Raz-Yaseef, CARB explained that while emissions reductions communities selected under AB 617 are required to meet a one-year statutory deadline, communities are encouraged to begin developing and implementing emissions reduction strategies before being selected under this program. Matt Holmes asked what the process would be if CARB rejected a Community Emissions Reduction Plan. Monique Davis noted that this scenario has not happened at this point, but that communities are provided the opportunity to collaborate with CARB staff as the Plan is developed.

Katrinka Ruk asked Margaret Gordon about the technical foundation for the West Oakland Community Emissions Reduction Plan, and she explained that the Plan's technical analysis apportioned emissions at the community level. Margaret Gordon explained that her organization is still working with CARB and the Air District to determine if the Plan's technical analysis is sufficient under AB 617.

According to the WOEIP, the West Oakland Community Action Plan includes 85 strategies, 30 of which fall within the Air District's purview and are undergoing an environmental review process. Margaret Gordon emphasized that WOEIP did not write the Plan and that all the strategies were developed by the Steering Community and the community more broadly. Brian Beveridge noted key takeaways from the West Oakland Community Action Plan process, such as structuring the process around capacity building milestones and establishing partnerships with key entities, such as universities and government agencies.

Melvin Siegel asked the representatives for Communities for a Better Environment whether they believed recent flaring is correctable, which they confirmed. Willie Robinson asked Communities for a Better Environment to clarify why they declined to participate in the Community Air Monitoring Plan process. Greg Karras explained that their organization declined because they felt the community urgently needed to initiate an Emissions Reduction Plan under AB 617.

VIII. Public Comment

At the conclusion of the Steering Committee discussion, the floor was opened for public comment. Glenn Koffman, a resident of San Pablo, asked CARB how many communities would be selected as Emissions Reduction communities in December 2019. Monique Davis responded that the number of communities is not pre-determined, and they are aiming for no more than three. Steven Yang of Chevron asked why the Richmond – San Pablo Area was selected as an Air Monitoring community. Greg Nudd explained that the area was selected because it contains a large number of pollution sources, but has not conducted comprehensive monitoring to date. He also acknowledged that the significant disparities in health affects observed in Richmond / San Pablo do not correspond to the expected measured air pollution at the area's existing monitoring sites, indicating that there may be new information to be gained by monitoring for additional pollutants and/or in additional locations.

Mel Siegal asked CARB for an explanation as to why rules have been repeatedly delayed. Monique Davis noted that CARB's Board of Directors has passed a resolution to adopt rules more quickly than was originally approved. Director John Gioia also responded to this question and agreed that although there is an ongoing need to conduct monitoring, CARB needs to continue developing rules. Greg Nudd noted that refineries regularly sue the Air District over

new regulations and rules, which is why the District conducts research and produces information and technical analyses to defend new rules.

IX. Next Steps

The Co-Lead Team and Air District will plan the agenda topics, presentations and activities for the seventh Steering Committee meeting. The Steering Committee will meet for its seventh meeting at the Richmond Memorial Auditorium on September 11, 2019.

Richmond – San Pablo Community Air Monitoring Plan Steering Committee

Meeting #6: August 14, 2019

List of Appendices:

- **Meeting Agenda**
- **PowerPoint Presentation**

Richmond-San Pablo Area Community Air Monitoring Plan Steering Committee Meeting

August 14, 2019 ~ 6:00 pm - 8:00 pm
Richmond Memorial Auditorium (403 Civic Center Plaza, Richmond)

A G E N D A

- 5:30 pm *Registration and Dinner*
- 6:00 **I. Welcome, Introductions and Roll Call**
- 6:10 **II. Agenda Review**
- 6:15 **III. Brief Recap of 7/10 Steering Committee Meeting**
- 6:20 **IV. Relationship between the Emissions Reduction Plan
and the Community Air Monitoring Plan**
▪ Monique Davis, California Air Resources Board
- 6:30 **V. Learning from the West Oakland Community
Emissions Reduction Plan**
▪ Ms. Margaret Gordon, West Oakland Environmental
Indicators Project
- 6:40 **VI. Emissions Reduction Planning in the Richmond – San
Pablo Community**
▪ Tyler Earle and Greg Karras, Communities for a Better
Environment
- 6:50 **VII. Current Emissions Reduction Efforts**
▪ Greg Nudd, Bay Area Air Quality Management District
- 7:00 **VIII. Panel Discussion**
- 7:45 **IX. Next Steps**
▪ Next Steering Committee Meeting: September 11,
2019, 6:00 - 8:00 pm; RSVP Link:
<https://forms.gle/LWhTQshcpUYicd1o7>
- 7:50 **X. Public Comments**
- 8:00 pm *Close...*



**Richmond – San Pablo Community Air Monitoring Plan
Steering Committee Meeting #6**

August 14, 2019

Today's Agenda

- I. Welcome, Introductions and Roll Call
- II. Agenda Review
- III. Brief Recap of 7/10 Steering Committee Meeting
- IV. Relationship between the Emissions Reduction Plan and the Community Air Monitoring Plan
- V. Emissions Reduction Planning in the Richmond – San Pablo Community
- VI. Learning from West Oakland Community Emissions Reduction Plan
- VII. Current Emissions Reduction Efforts
- VIII. Public Comments

Meeting Objectives

- **Build and deepen the Steering Committee's understanding** of the relationship between the Community Air Monitoring Plan and the Emissions Reduction Plan

Steering Committee Operating Principles

- Transparency
- Equal Participation
- Inclusivity
- Respectful Engagement
- Facilitated Meetings
- Decision Making



Brief Recap of 7/10 Steering Committee Meeting

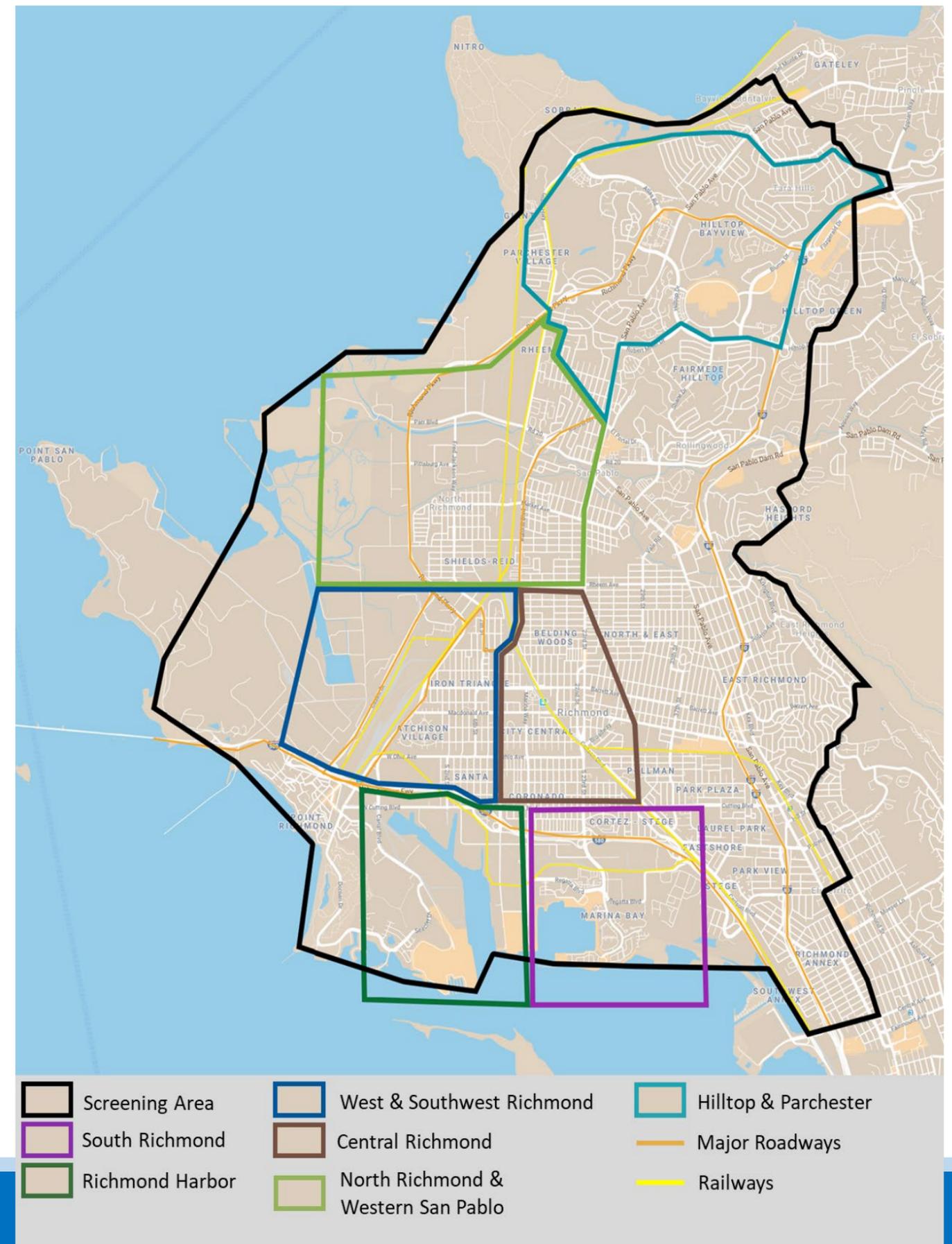
Recap of 7/10 Steering Committee Meeting

- Discussed community engagement ideas for Steering Committee members
- Discussed three priority focus areas (Richmond Harbor, South Richmond, North Richmond/ Western San Pablo)



What's Next?

- In September, Steering Committee members will **continue discussing focus areas** for air quality monitoring.

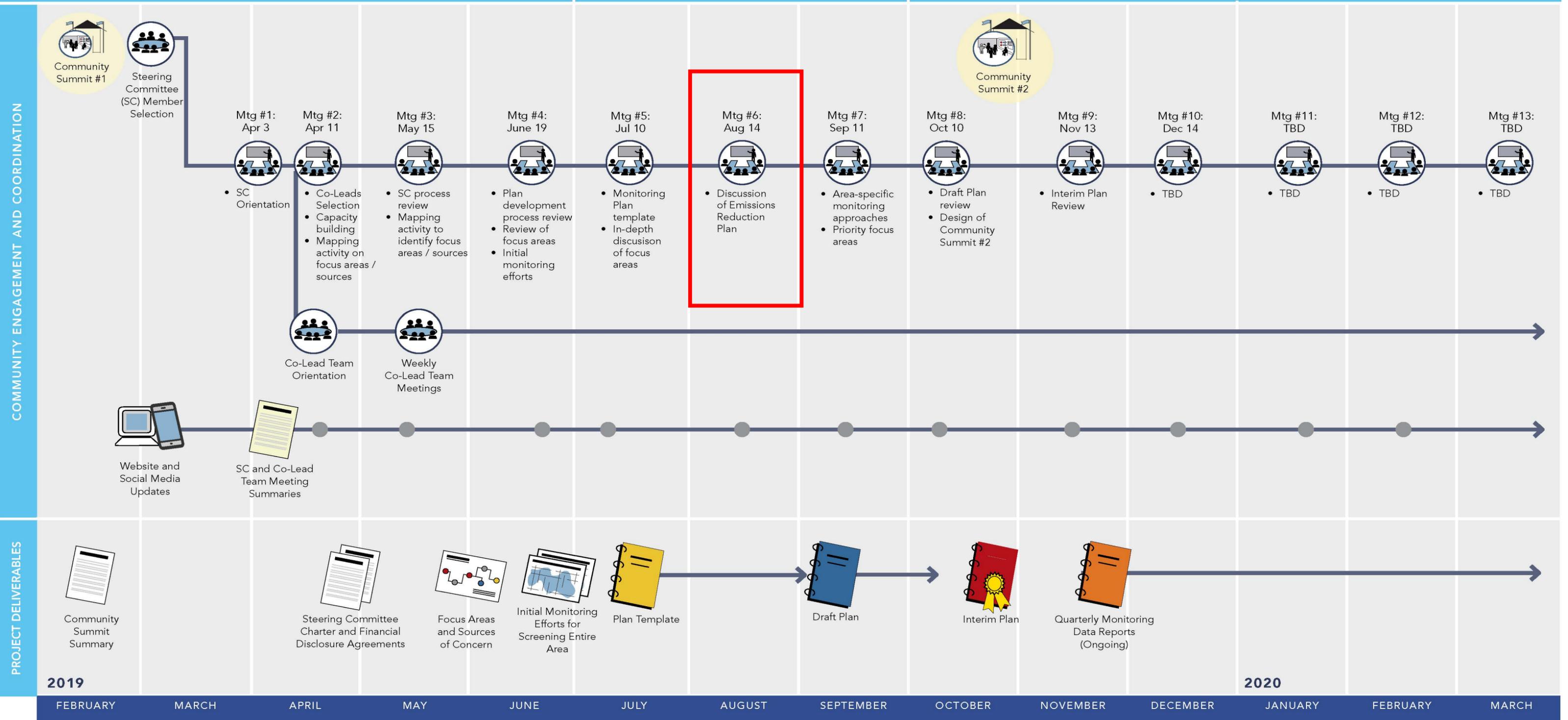


Richmond - San Pablo Area Community Air Monitoring Plan

PHASE 1: IDENTIFY COMMUNITY-SPECIFIC AIR QUALITY CONCERNS

PHASE 2: PRIORITIZE FOCUS AREAS AND DRAFT PLAN

PHASE 3: FINALIZE AND IMPLEMENT MONITORING PLAN



**Relationship between the
Emissions Reduction Plan
and the
Community Air Monitoring Plan**

AB 617 Community Emissions Reduction Programs

RICHMOND-SAN PABLO COMMUNITY STEERING committee

AUGUST 14, 2019

Community Focus: Reduce Cumulative Exposure to Air Pollution



Actions in the Initial Set of Communities

Air districts are working with communities to develop:

- Community air monitoring (July 2019)
- Community emissions reduction programs (Oct 2019)



AB 617 on community emissions reduction programs

CARB develops
criteria

Air district and
community members
develop emissions
reduction programs

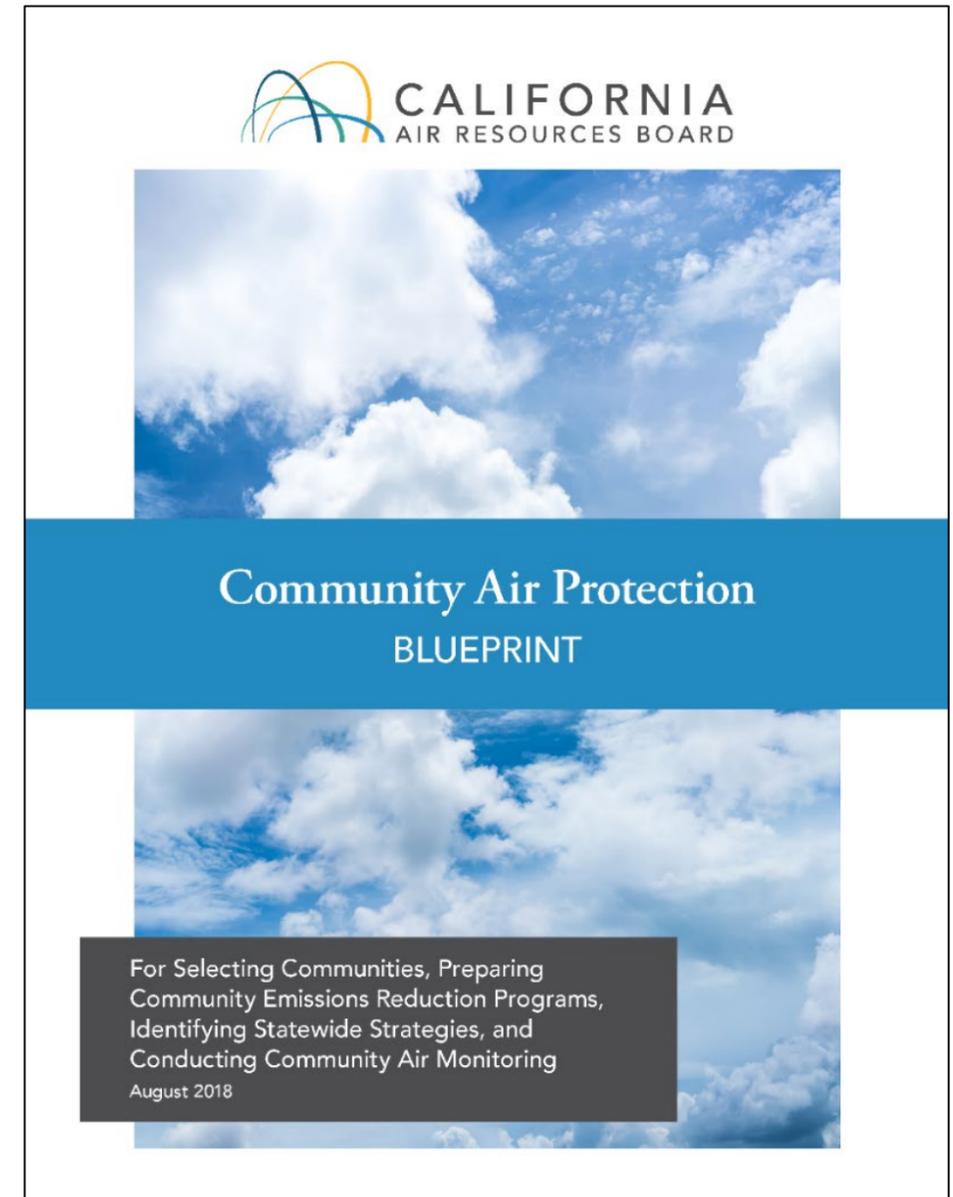
Air districts submit
emissions reduction
programs to CARB

Progress and Annual
Reporting

Blueprint for Program Implementation

Defines statewide strategies and sets requirements for:

- Public engagement and community partnerships
- Selecting communities
- Conducting community air monitoring
- Developing community emissions reduction programs



Criteria for Community Emissions Reduction Programs

**APPENDIX C.
CRITERIA FOR COMMUNITY EMISSIONS
REDUCTION PROGRAMS**

TABLE OF CONTENTS

I.	INTRODUCTION.....	C-2
II.	HEALTH-BASED AIR QUALITY OBJECTIVES	C-5
III.	REQUIREMENTS FOR COMMUNITY EMISSIONS REDUCTION PROGRAM DEVELOPMENT.....	C-7
	Community Partnerships and Public Engagement.....	C-7
	Understanding the Community.....	C-13
	Developing Targets and Strategies.....	C-16
	Enforcement Plan.....	C-29
	Metrics to Track Progress	C-33
	California Environmental Quality Act.....	C-35
IV.	CARB REVIEW	C-36
V.	IMPLEMENTATION REQUIREMENTS	C-37
	Community Partnerships and Public Engagement.....	C-37
	Annual Progress Reports.....	C-38
VI.	CHECKLIST FOR COMMUNITY EMISSIONS REDUCTION PROGRAM EVALUATION	C-41

LIST OF FIGURES

Figure C-1	Overview of Community Emissions Reduction Program Process.....	C-2
Figure C-2	Community Emissions Reduction Program Required Elements	C-3
Figure C-3	Community Steering Committee	C-9
Figure C-4	Process for Establishing an Emissions Reduction Target.....	C-18
Figure C-5	Process for Establishing a Proximity-Based Goal.....	C-20
Figure C-6	Annual Report.....	C-38

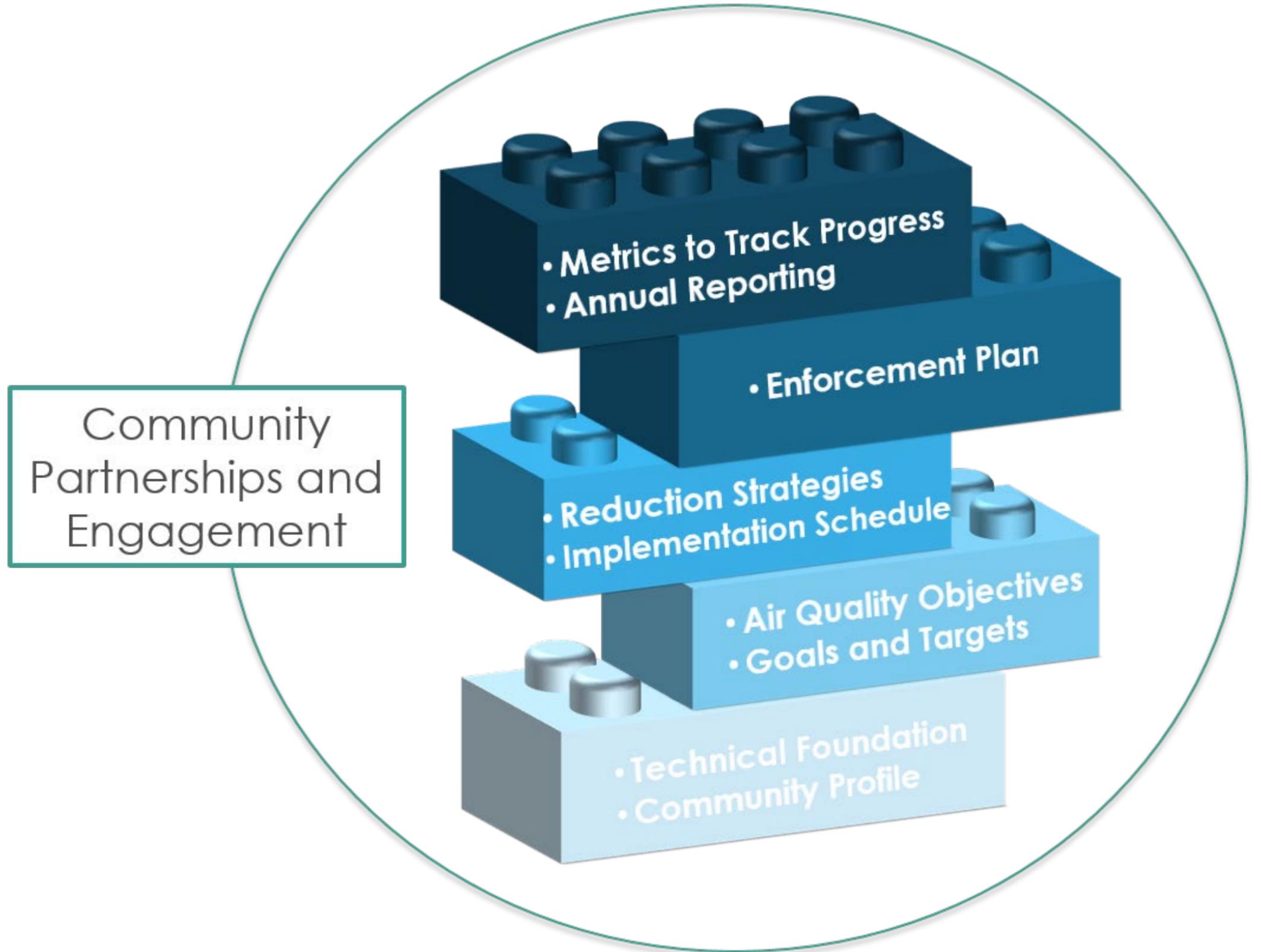
LIST OF TABLES

Table C-1	Checklist for Community Emissions Reduction Program Evaluation ...	C-41
-----------	--	------

COMMUNITY AIR PROTECTION PROGRAM C-1



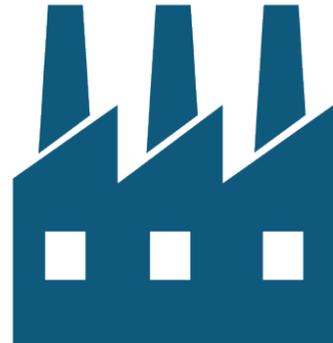
Community Emissions Reduction Program Elements



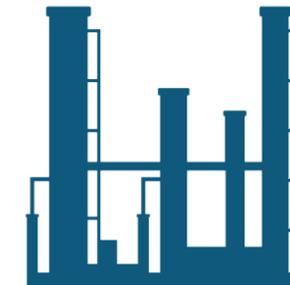
Reduction Strategies



Rules



**Facility-Specific
Risk Reduction**



**Air Quality
Permitting**



Incentives



Enforcement



**Land Use, Transportation,
and Mitigation**

Process and Timeline

Community Engagement



1 Year

2019 Community Selection

- Start with CARB Board's direction from last year
 - Prioritize monitoring communities for moving into a community emissions reduction program, guided by data and Steering Committee recommendation
 - Draw from 2018 priority recommendations
- Provide continued support for the first set of communities
- Timeline
 - Fall 2019: Air Districts work with communities to submit recommendations
 - Fall 2019: CARB conducts outreach on proposed recommendations
 - Late 2019: Release final staff recommendations
 - December 2019: Board Consideration of additional communities

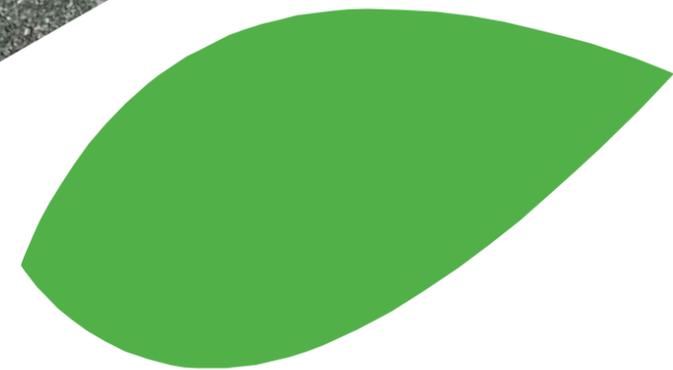
Contact Us

- **Community Air Protection Program**

- Email: CommunityAir@arb.ca.gov (o) AireComunitario@arb.ca.gov
- Phone: 916-322-7049
- CARB website: <https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program>
- Blueprint document: <https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program/community-air-protection-blueprint>
- Monique Davis: Monique.Davis@arb.ca.gov, 916-322-7304

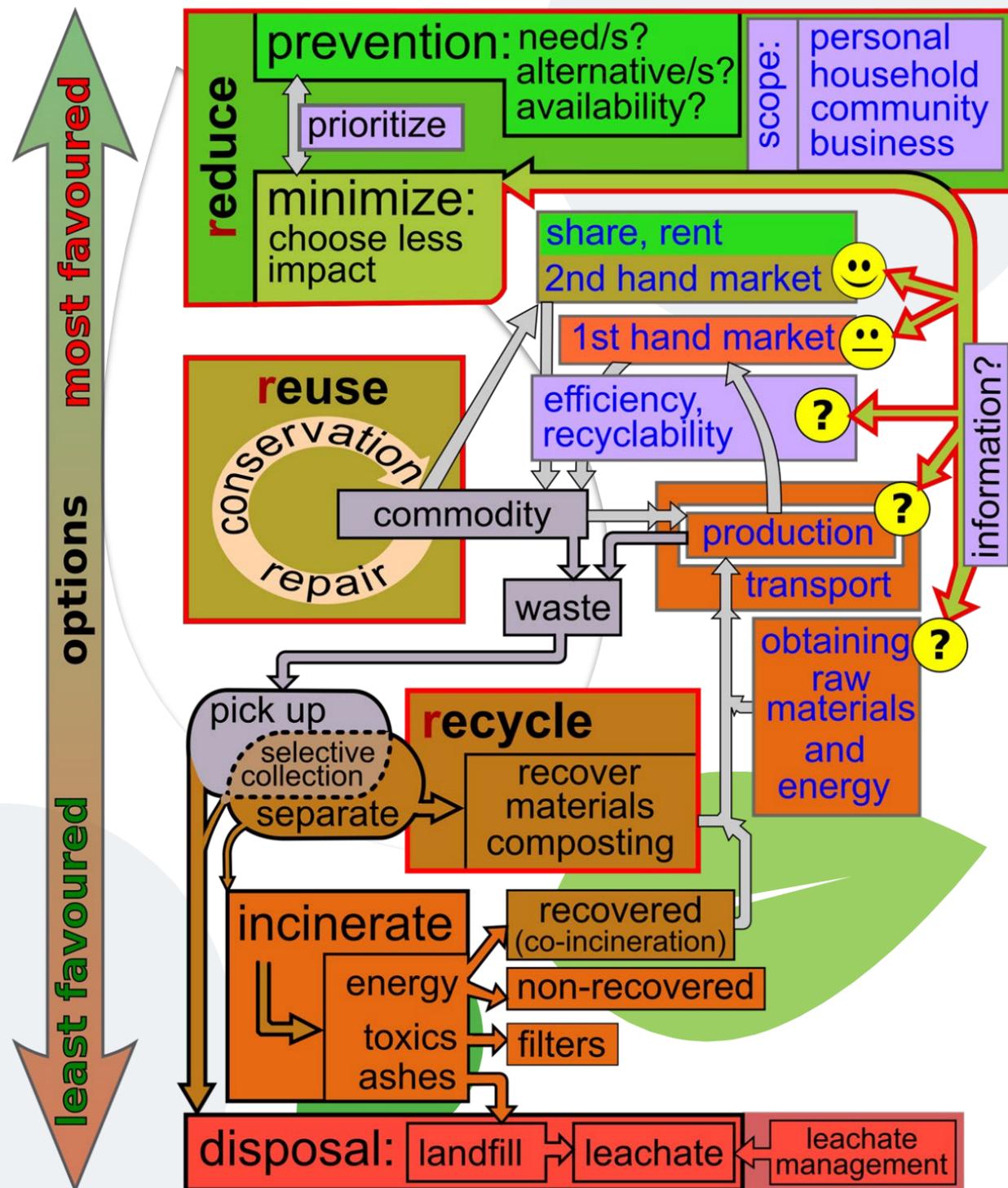
**Learning from
West Oakland Community
Emissions Reduction Plan**

West California Environmental Indicators Project



Our Mission

- Increase environmental justice, public health, air quality and land-use awareness
- Encourage environmental justice education and solutions to problems facing West Oakland residents who bear the brunt of disproportionate exposure
- Provide motivational leadership development to West Oakland residents
- Inform the neighborhood of advocacy tools, help set priorities, foster political education, and make research and data available

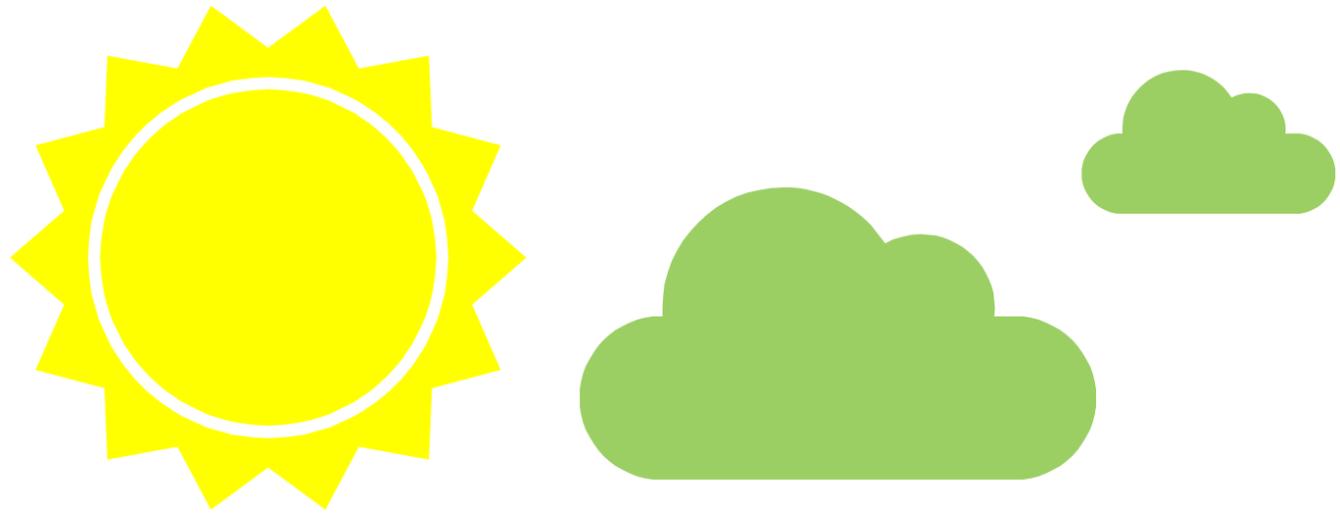




History of West Oakland

- **Heavy industrial pollution from port and associated activities**
- **Cypress Freeway divided neighborhood**
- **Lack of grocery store for decades**
- **Neighborhood starved of resources**
- **Chronic unemployment**

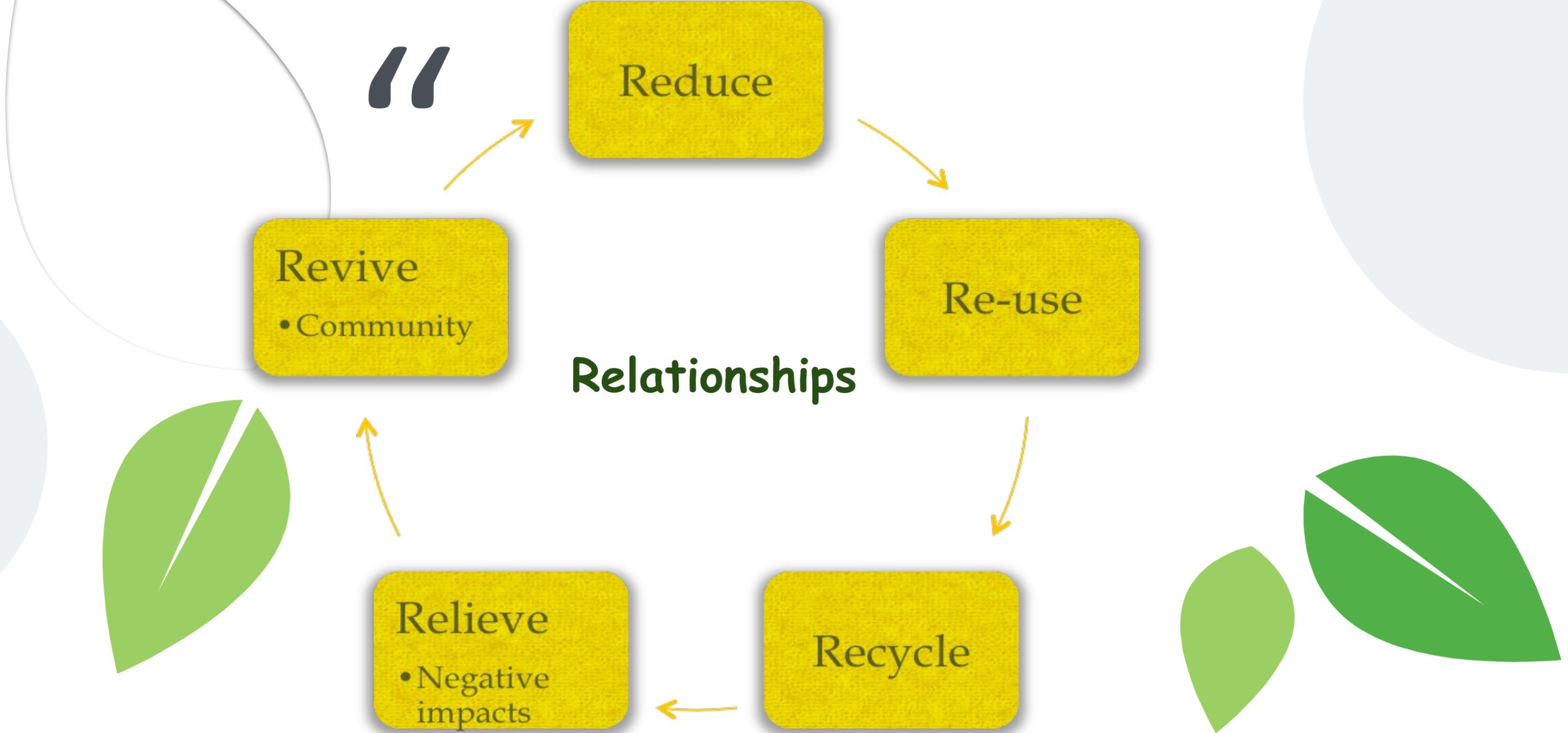




West Oakland



Our Method of Environmental Justice



WHAT WE DO



PROGRAM AREAS

AIR QUALITY

- Indoor Air Quality- Healthy Homes
- Outdoor Air Quality- Ditching Dirty Diesel

CLIMATE CHANGE ADAPTATION

- Removing recyclers from the neighborhood
- Ensuring that West Oakland redevelopment helps revive community

COMMUNITY INFLUENCED REVITALIZATION

- Helping provide residents with energy security, protection from flooding

Tools We Use

- Research
 - ◆ Community-based participatory research
- Education
 - ◆ Hands-on skills development
 - Outreach
- Community members
 - ◆ Other organizations,
 - ◆ Sharing our methodology
- Base Building
- Leadership Development
- Advocacy





Collaborative Model: Sharing the Process and the Power

Everyone Sits at the Same Table:

- Community Residents
- Local Businesses
- City of Oakland
- Port of Oakland
- Regulatory Agencies
 - EPA
 - CARB
 - BAAQMD
 - ACDPH

Partnership Agreements

- Empowers Community
- Establishes roles of partners
- Defines goals of partnership
- Responsibility for partners
- Accountability for partners



AIR QUALITY

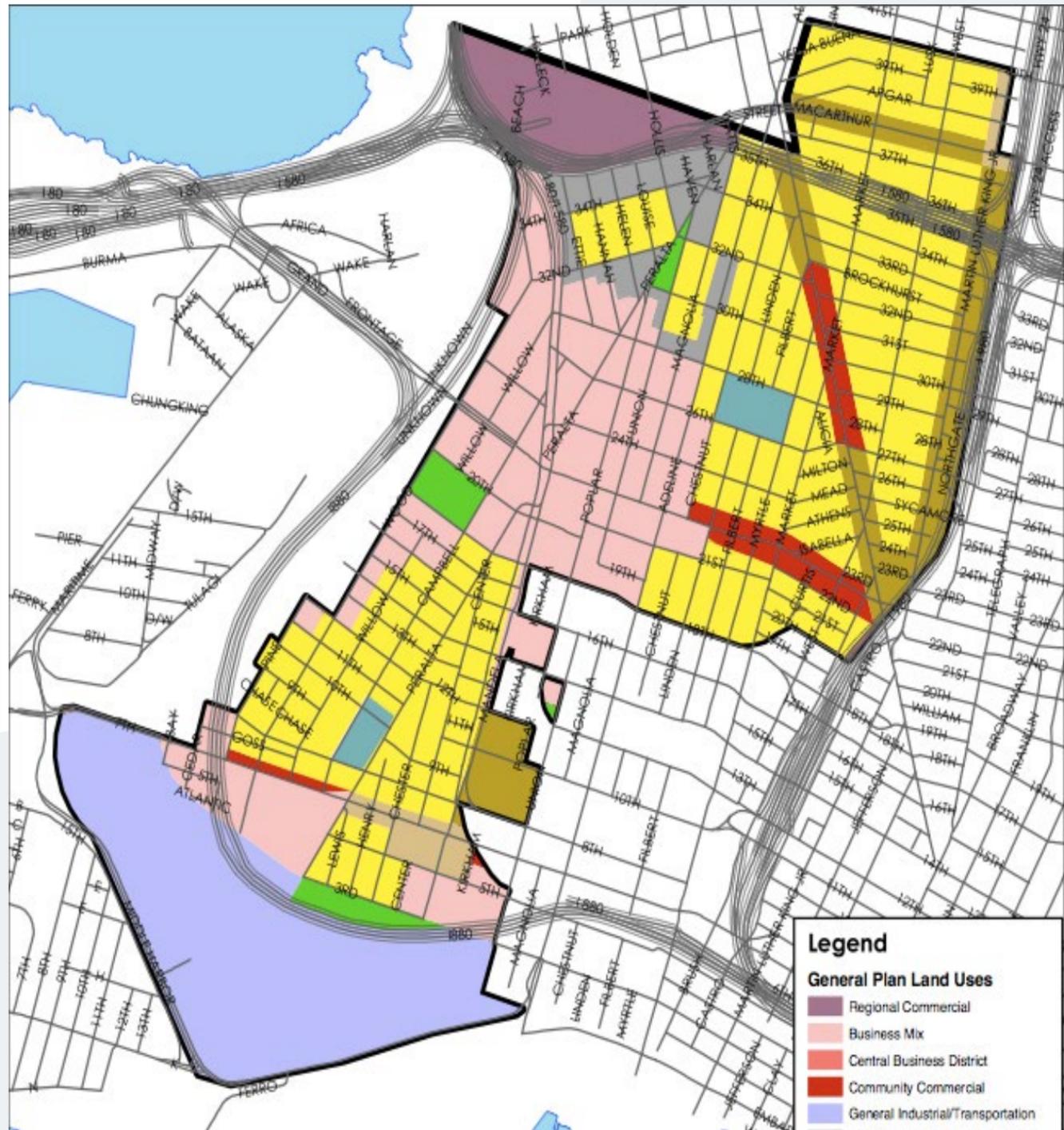
Common Sense Project- with Intel Labs Berkeley



- Provides opportunity to:
 - Engage citizens in air quality monitoring and management practices
 - Fill in the gaps in state monitoring networks
 - Use new data sources for scientific research.

Community Influenced Revitalization

- We work with city and regional planners, regulators, policy makers and business to improve the community
- Created roadmap to identify brownfields with Department of Toxic Substances and Control
- Work to remove industrial recyclers and trucking from the residential neighborhood
- Economic Development: Local Small Business Incubator



West Oakland Land Use Planning

Climate Change Adaptation

- We partner with vulnerable communities
- Educate residents on resilience, preparing for heat, cold, rain, flooding, drought and sea-level rise
- Advocate with local and regional government to ensure sufficient disaster preparedness, and energy security



Predicted Sea Level Rise
-Pacific Institute



The Beginning of Citizen Science for WOEIP

Partnering with the community to share the necessary tools and resources to measure air quality and discuss the disparities.





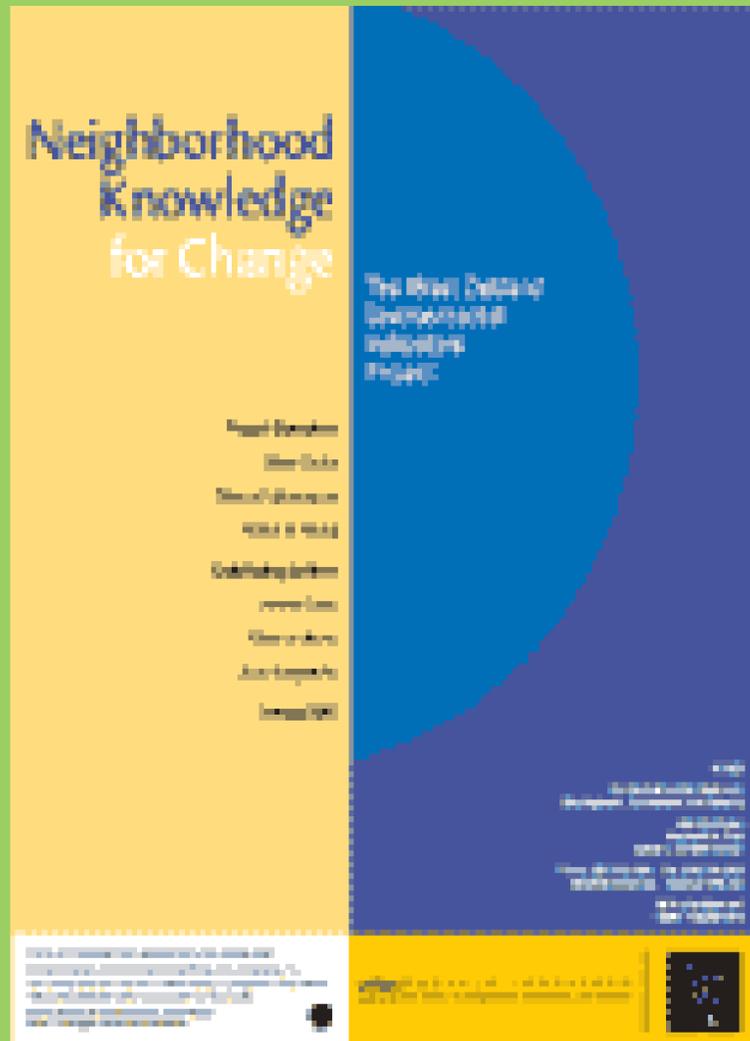
Residents Coming Together and Learn to Measure

West Oakland Environmental Indicators Project came together as an education exercise to learn the power of Community Based Participatory Research starting in 2002. This effort was supported by the Pacific Institute, with assistance from staff and graduate students of UC Berkeley's Institute of Urban and Regional Development (IURD).

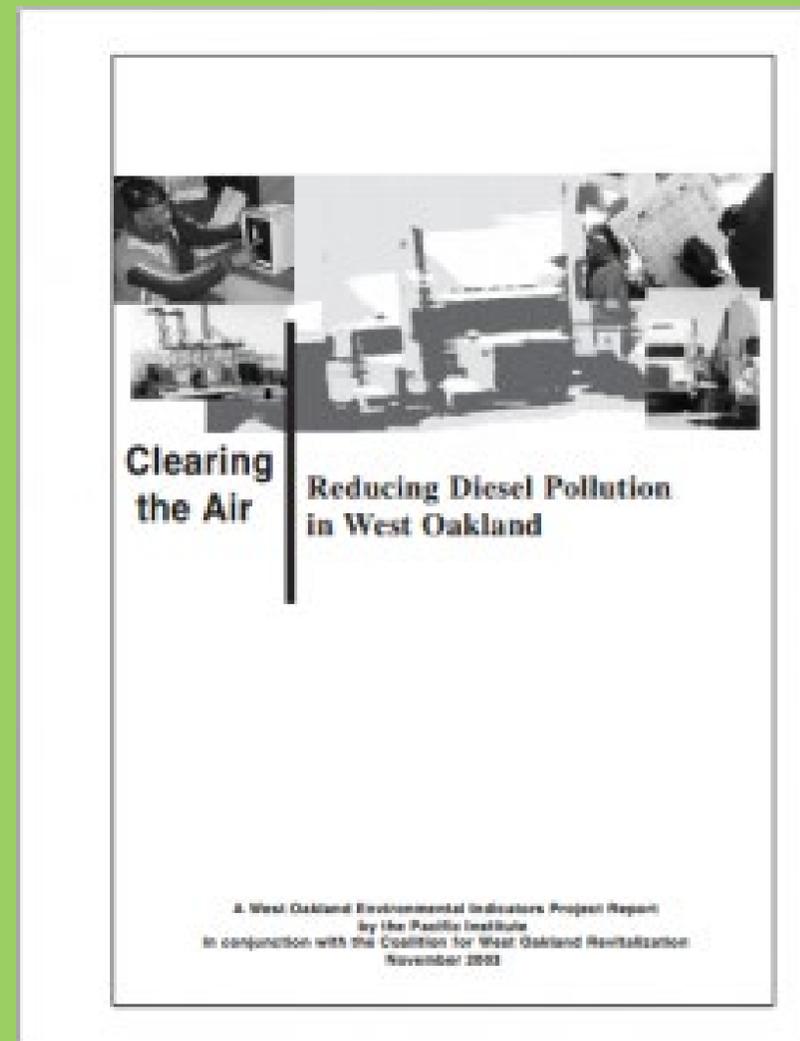


WOEIP FOR CBPR

Our partnership with the Pacific Institute yielded these three reports:



Neighborhood Knowledge of Change (2002)



Clearing the Air (2004)



Paying With Our Health (2006)



WOEIP FOR CBPR



- In 2008, WOEIP partnered with Intel and Common Sense Science to collect air quality data using handheld devices designed by researchers at the University of California-Berkeley Intel Labs.
- WOEIP recruited neighbors and youth into the 'Personal Air Monitoring Project, a study using TSI Dusk Tracker, a portable sensor that collects both GPS information and data on particulate matter (PM) in the air.
- WOEIP provided hands-on training to affected residents, allowing them to not only participate in problem-solving but also empowering the citizens to realize that they have ownership of the data.

100 x 100 Black Carbon Study

- The project involved deploying 100 low-cost Black Carbon sensors throughout the West Oakland Community to measure air pollution for 100 days.
- WOEIP engaged and recruited residents and local businesses to host the air sensors. T
- The aim of the project was to create a dense monitoring network that would enable residents to see how pollution levels vary within their neighborhoods and identify local air pollution hotspots that are not captured by regulatory monitors.



GOOGLE/ACLIMA STUDY

- Google cars equipped with sensors drove more than four hundred miles of streets in West Oakland at least thirty times on 150 separate days taking nearly 3 million measurements over 14,000 miles.
- Shows that pollution levels vary between neighborhoods, and also on a hyperlocal level within neighborhoods.
- Residents near industrial operations or high-traffic corridors were found to be inhaling several times the amount of airborne toxins as neighbors a block away.



AB 617

- In 2017 WOEIP partnered with the Bay Area Air Quality Management District to implement AB 617, a bill that was passed to reduce air pollution and improve public health in communities that experience disproportionate burdens from exposure to air pollutants.
- The bill includes community air monitoring and community emission reduction plans to reduce people's exposure to particulate matter and toxic air contaminants.
- Designed for communities that are often exposed to greater amounts of air pollution as a result of their location near stationary sources such as ports, rail yards, warehouses, and freeways or from greater densities of mobile sources like cars, diesel trucks, or ships in the area.



AB 617 ELEMENTS • Focus on Community Action



Community emissions reduction programs



Accelerated retrofit of pollution controls on industrial facilities



Community-level air quality monitoring



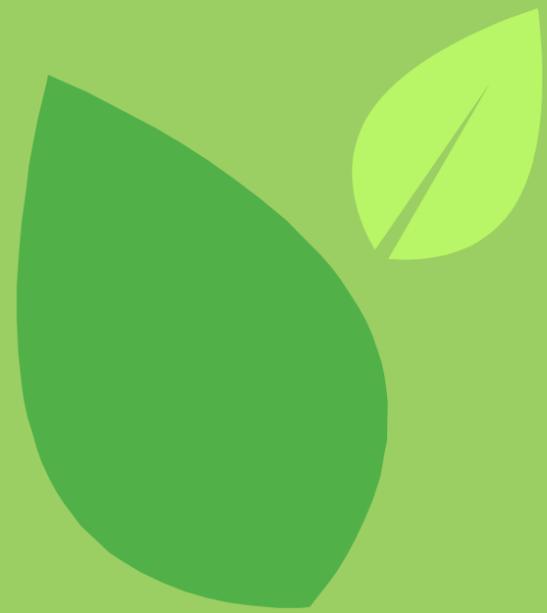
Enhanced emissions reporting



Increased penalty provisions



Grants to local community groups

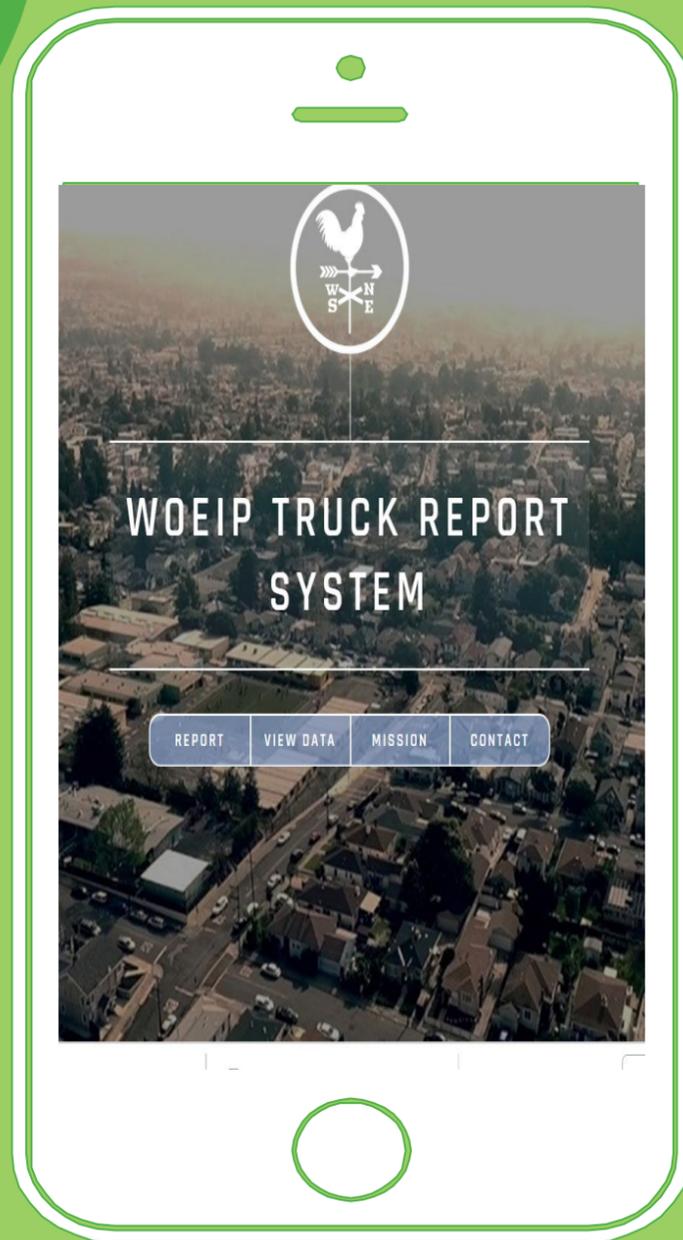


AB 617 for Communities

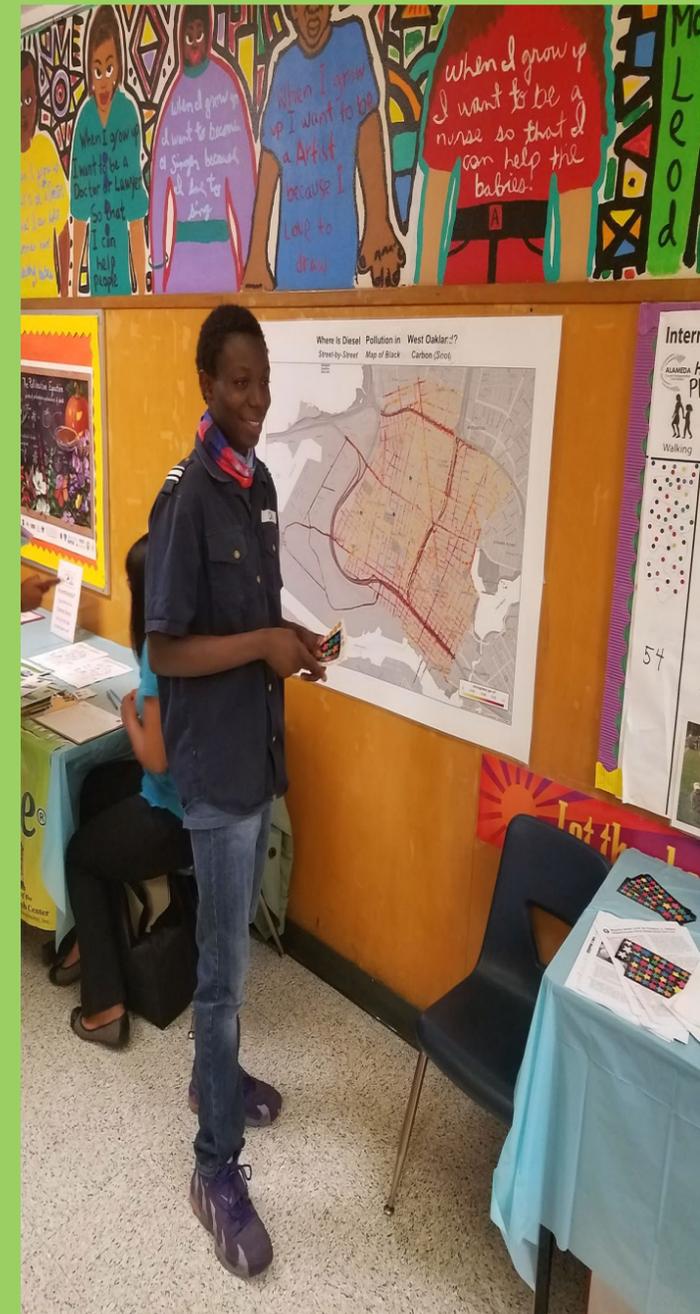
- An important part of AB 617 is the *high level* involvement from the *community*.
- AB 617 creates a way to incorporate community expertise and direction into the development and implementation of clean air programs in their community.
- Community residents must be active partners in *envisioning, developing, and implementing* actions to clean up the air in their communities.
- Community members and local air districts will work together to craft solutions for each selected



OWNING OUR AIR



- Partnering with Prescott Elementary to inform residents about truck traffic as a major polluter in West Oakland coming from the port.
- Exposing children to high levels of diesel particulate can cause cancer, asthma, hypertension, brain tumors, asthma attacks, heart failure and strokes due to reduced air quality near the Port of Oakland.
- Project will work with families to educate and train them on how to properly identify trucks that contribute to lower air quality in your West Oakland neighborhoods.



Emissions Reduction Planning in the Richmond – San Pablo Community

Current Emissions Reduction Efforts

Reducing Emissions In Richmond



Greg Nudd
Deputy Air Pollution Control Officer
August 14, 2019

Reducing Emissions In Richmond

- Past refinery rules
 - New, innovative toxics regulation
 - New, stringent refinery regulations
 - Dramatic changes to permitting program
 - More funding for clean transportation
- 

Past Refinery Rule Efforts



Rule Development	Adopted / Amended
Amended Rule 2-5: Toxic New Source Review —Strengthens permitting requirements for new or modified sources of toxic emissions	December 2016
New Rule 6-5: PM from Refinery Fluid Catalytic Crackers —Reduces PM from largest sources at refineries	December 2015
Amended Rule 8-18: Equipment Leaks from Refinery Heavy Liquids Leaks —Reduces VOC and toxics from ground-level operations with higher local impacts	December 2015
New Rule 9-14: Petroleum Coke Calcining Operations —Reduces SO ₂ from largest source in the Air District	April 2016
Amended Rule 11-10: Refinery Cooling Towers —Minimizes VOC and toxic leaks from cooling towers by requiring an aggressive testing schedule	December 2015
New Rule 12-15: Petroleum Refinery Emissions Tracking —Requires monitoring of crude inputs, detailed emissions reporting, fence line monitors	April 2016
New Rule 11-18: Reduction of Risk from Air Toxic Emissions at Existing Facilities —Reduces toxic impacts from all major sources of air toxics, including refineries	November 2017

Toxics: New Rule 11-18

- Requires health risk assessments of facilities and then possible risk reduction plan
- 15 facilities in Richmond subject to Rule 11-18

Phase 1 Facilities– HRAs Complete in 2020/early 2021

- Chevron Products Company
- Chemtrade West
- West Contra Costa County Landfill

Phase 2 Facilities – Begin HRA Work in 2020

- Chevron
- Chevron Richmond Technology Center
- Levin Richmond Terminal
- West County Wastewater District
- City of Richmond Water Pollution Control District
- AC Transit
- East Bay MUD
- IMTT
- BNSF Railway
- Phillips 66
- Biorichland
- Richmond Product Terminal

Refinery Rules

Refinery Rules	Public Workshop Draft Rule	Final Hearing
Rule 6-5: Refinery Fluid Catalytic Crackers	Q1 2020	Q4 2020
Rule 8-5: Organic Liquid Storage Tanks	Nov 2019	Q3 2020
Rule 8-8: Petroleum Wastewater Treating	Dec 2019	Q3 2020
Rule 8-18: Refinery Heavy Liquids Leaks	Q2 2020	Q4 2020
Rule 9-14: Petroleum Coke Calcining Operations	Q1 2021	Q3 2021
Regulation 2, Rules: Permit Reform	Nov 2019 / Apr 2020	Q4 2020

Changes to Permitting

Early Idea: More stringent health standards considered before issuing new permits in the most impacted communities

Jul/Aug 2019

Meetings with communities

Beginning April 2020

Community workshops on draft rule

Nov 2019

Community-focused workshops

Fall/Winter 2020

Adopt new rule

Richmond Clean Transportation Funding

Clean Cars	EV Infrastructure	Trucks, Buses, Locomotives, Marine Vessels, etc.
Since April 2019 \$69,000	Since 2016 \$159,000	Since 2014 \$5+ million
Additional Available \$8 million	Additional Available \$5 million/year	Additional Available \$50 million

Panel Discussion

Next Steps

Next Steps

- Next Steering Committee meeting:
 - **September 11, 2019, 6-8 pm**
 - Richmond Memorial Auditorium (Bermuda Room), 403 Civic Center Plaza
- **RSVP** for the September 11th meeting by **September 7th**
 - <https://forms.gle/LWhTQshcpUYicd1o7>

Steering Committee Meeting Schedule

- **September 11, 6:00 – 8:00 pm**
- October 9, 6:00 – 8:00 pm
- November 13, 6:00 – 8:00 pm
- December 11, 6:00 – 8:00 pm

****Child Watch Available****

**To view Steering Committee
agendas, minutes and PowerPoint
presentations online, visit:**

[http://bit.ly/Richmond-SanPablo-
CommunityHealth](http://bit.ly/Richmond-SanPablo-CommunityHealth)



**Richmond – San Pablo Community Air Monitoring Plan
Steering Committee Meeting #6**

August 14, 2019