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**Community Emission Reduction Plan (CERP)
Community Steering Committee Meeting #10**

February 28, 2022

Welcome!

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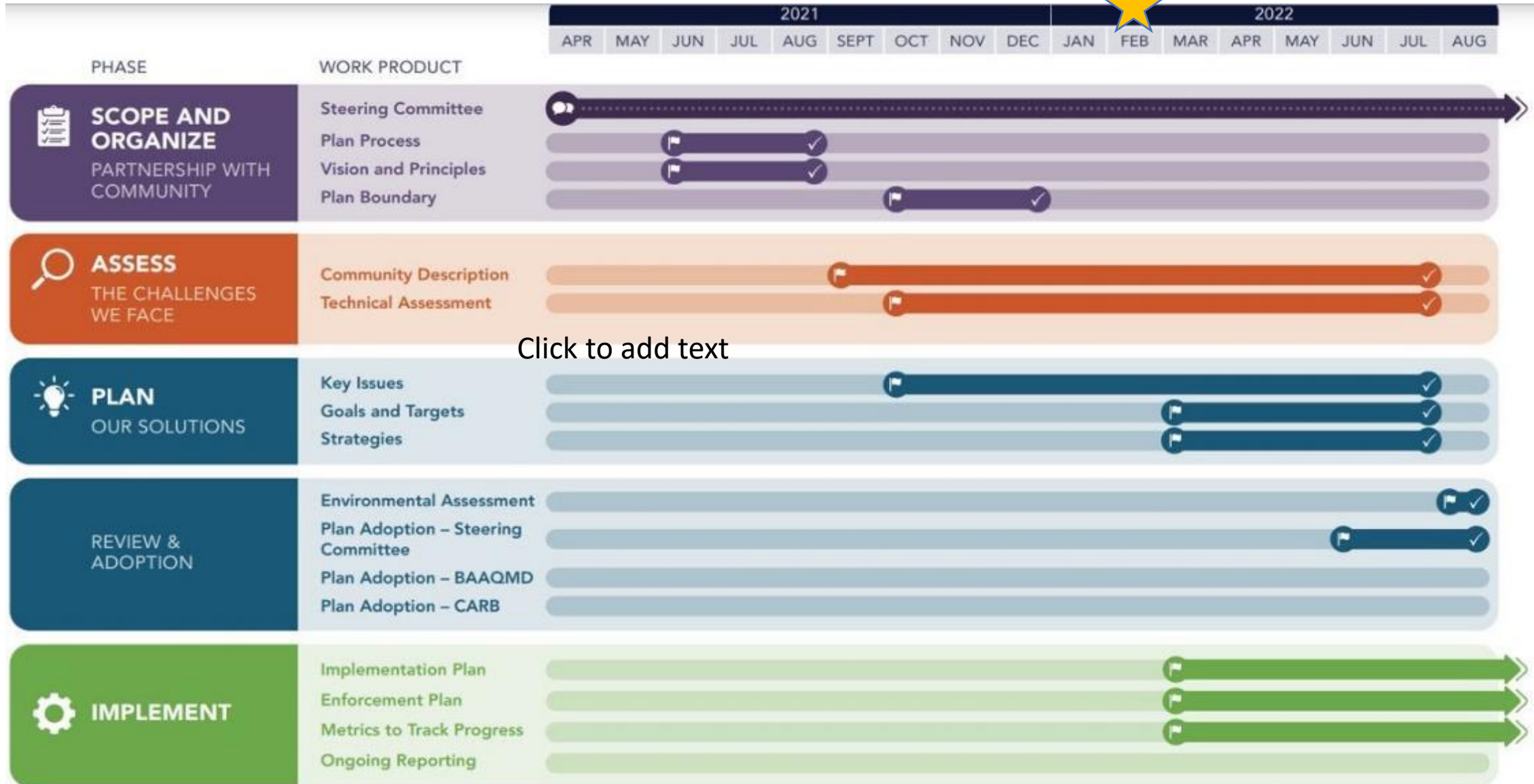
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Today's Agenda

1. Roll Call
2. Approval of January 28, 2022 Meeting Minutes
3. Types of Actions to Reduce Emissions and Exposure
4. List of Community Air Pollution Concerns for Key Issues Framing
5. Public Comment on Non-agenda Items and Next Steps



Timeline: Where are We Today?



Click to add text

Update from Community Description and Technical Assessment Ad Hoc

Town Hall Ad Hoc update: Marisol Cantu

Community Description Ad Hoc co-leads: Nancy Aguirre

Technical Assessment Ad Hoc co-leads: Jeff Kilbreth



Approval of January 28, 2021 Meeting Minutes

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Public Comment

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Types of Actions to Reduce Emissions and Exposure

Kelly Malinowski, Senior Environmental Planner

kmalinowski@baaqmd.gov

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Outline

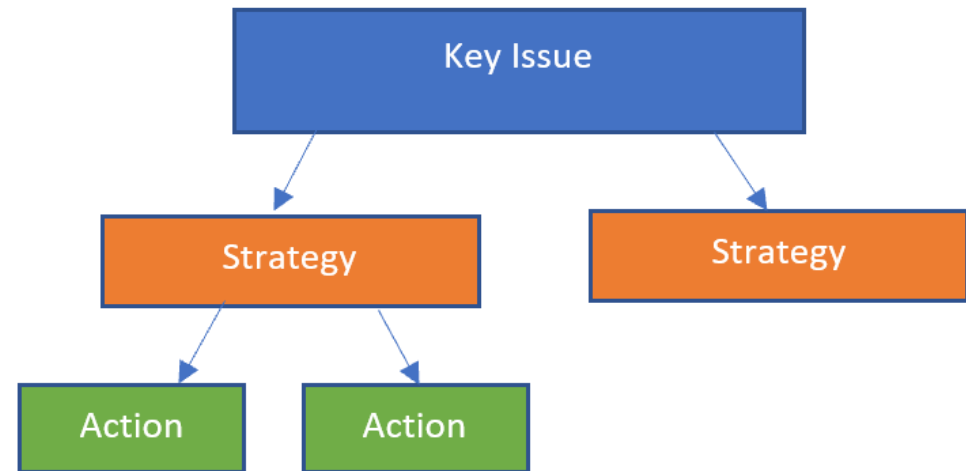
- Actions form a Strategy
- Implementers
- Types of Actions
 - Presentations from Air District Divisions
- Question and Answer Panel
- Next Steps



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Actions form a Strategy

- Just as multiple concerns form a Key Issue Statement, **multiple Actions can form a Strategy** to address a Key Issue
- Actions could include:
 - Regulations
 - Permitting
 - Enforcement
 - Incentives
 - Further Study
 - Education and Outreach



Implementers

- There are many Action implementers beyond the Air District
- Implementers can be local, regional, or state agencies/authorities
 - CARB
 - Cities
 - County
 - Transportation Agencies (County, Regional)
 - Health Department
 - Etc.

Air District Actions

- Today, we will hear from different Air District Divisions on different types of Actions that we can implement
- In the future, through online learning, we will hear from partners who can implement Actions, such as CARB, the Cities and the County

Air District Actions

- Regulations
- Permitting
- Enforcement
- Incentives
- Further Study
- Education and Outreach

Regulations: Air District Rule Development

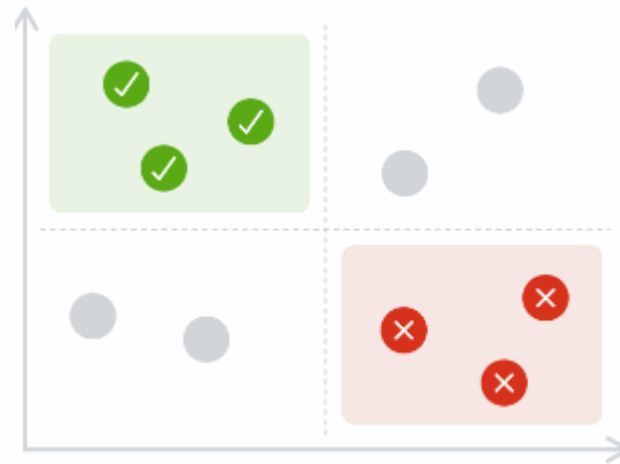
- Air District Rule Development = 1 specific tool in our toolbelt
 - Appropriate for
 - Stationary Sources
 - Emissions of criteria pollutants, toxics, some greenhouse gases
- How the tool is used
 - Amending existing rules
 - New requirements added
 - Clean-up for greater efficacy
 - Creating new rules
 - For previously unregulated sources or pollutants



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Regulations: Air District Rules

- Considerations when picking Rule Development as a tool
 - Important factors, including statutory requirements
 - Cost Impacts
 - Socio-economic impact
 - Environmental Impact
 - Feasibility
 - Authority and Practicality
 - Other Tools Available



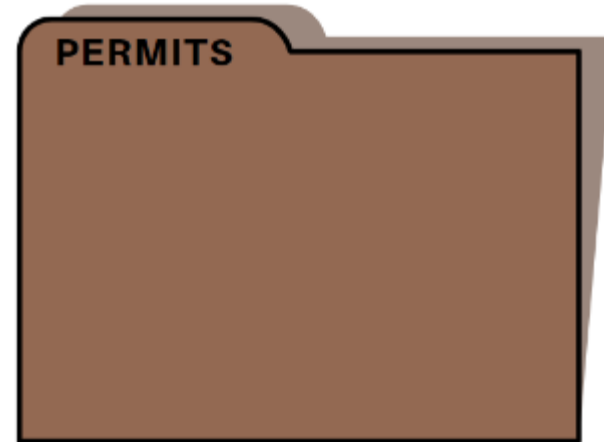
Regulations: Potential Types of Actions

- Some factors make it clear that rule development = the right tool, e.g.
 - Feasible and cost-effective controls available
- Some factors may lead us to determine that rules = not the best tool, e.g.
 - Timelines
 - Authority
 - Other tools stand out as better options
- Sometimes more information is needed
 - White papers may be the logical next step
 - Comprehensive evaluations, looking at factors in depth



Regulations: Develop → Implement

- Post-adoption implementation = time to bring out other tools from the toolbelt
 - Permitting
 - Enforcement



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Permitting



- Air permits are required by the federal Clean Air Act to construct/operate equipment if it needs an air permit.
- Air permits have conditions printed on their faces that the facility must comply with.
- When a facility receives an air permit for a piece of equipment, that permit means that the equipment is expected to comply with all the regulations of the BAAQMD, as well as all state and federal regulations.
- New and modified equipment may require Best Available Control Technology and Emissions Offsets that would reduce air pollution impacts of the project.

Permitting – Factors to Consider



- Air permits are evaluated based on the current BAAQMD, state, and federal permitting regulations in effect.
- These permitting regulations are adopted and amended through each agencies' rule development process, which allow for public participation by workshops, hearings, and public comment.
- Regulation 2, Rules 1 and 5 (permitting rules) were amended in December 2021 to further protect public health in overburdened communities.

Permitting – as a CERP Tool?



- In the West Oakland CERP process, prioritized implementation of Rule 11-18 health risk assessments was imposed on subject facilities in that community.
- We have already prioritized the Rule 11-18 health risk assessments for those subject facilities in the R/SP community.

Permitting – Potential Types of Actions



- If the community identifies any unpermitted facilities to the Air District, work with Enforcement to investigate and compel the facility to apply for any required air permits, impose permit conditions, may require additional controls if needed.
 - Example: Laser cutting operation in West Oakland community
- Work jointly with Rule Development on any regulations affecting permitting or permitted facilities.
- Work jointly with Enforcement on any compliance/enforcement actions at any permitted facility.

Enforcement: Core Programs

Compliance Inspections

- Inspect facility sources and operations
- Review recordkeeping
- Verify compliance
 - Local, State, and Federal Regulations
 - Permit conditions
- Document violations
- Resolve compliance concerns
- Verify corrective actions

Complaint Investigations

- Public Complaint Hotline:
 - 1-800-334-ODOR
 - 24/7, including weekends & holidays
- [Online Complaint Portal](#)
- Investigate air quality complaints (i.e. dust, odors, smoke)
- Document violations
 - Local, State, and Federal Regulations
 - Permit conditions
 - Public Nuisance
- Coordinate with other regulatory agencies when applicable

Enforcement Actions

- Document violations
 - Notice of Violation
 - Excess Emissions
 - Records / Administrative
 - Public Nuisance
 - Notice to Comply
- Work with Legal on enforcement cases and compliance strategies
 - Variances/Hearing Board

Enforcement: Potential Types of Actions

- Work jointly with Legal team on enforcement cases and utilize Air District Hearing Board when appropriate
- Conduct targeted inspections/investigations in areas of concern
- Collaborate with other regulatory agencies in joint inspections and investigations
- Identify other mechanisms to ensure compliance (i.e. regulatory, permitting, monitoring, outreach, etc.)



Enforcement: Important Considerations

- Enforceability
 - We can only enforce what is written in the regulations and permit conditions
 - We can only enforce sources that are within our jurisdiction
- Staffing resources
 - We prioritize air quality complaints and concerns and respond promptly to investigate whenever possible
- Penalties and settlements handled by the Air District Legal Division

Incentives: Introduction

Strategic Incentives and Technology Implementation Office

Incentives are:

- Voluntary
- Above and beyond regulations and rules
- Intended to clean up sources of air pollution, inspire new clean technology, and encourage adoption of new technology like zero-emission

Considerations:

- Funding comes from a variety of funding sources
- Specific guidelines and restrictions for each program
- New programs take time and effort to create



Incentives: Programs for Residents

Clean Cars for All

Grants to retire their older car and replace it with one of the following:

- Hybrid car
- Plug-in hybrid car
- Battery electric car
- Hydrogen fuel cell electric car
- Pre-paid public transit card
- E-bike

Vehicle Buy Back

Payments to retire older working cars

- \$1200 to retire 1997 and older cars
- Removes higher polluting cars from the road
- No requirement to replace with another vehicle

Woodsmoke Reduction (coming soon)

Grants to replace wood burning stoves or inserts with electric heat pumps

- Opening in mid to late 2022
- Richmond-San Pablo and Oakland residents only
- Extra funding for low-income residents
- Seeking community feedback



Incentives: For Businesses and Public Agencies

Charge!

Grants to install publicly accessible electric vehicle charging stations at:

- Workplaces
- Transit parking locations
- Along transportation corridors
- Multi-unit dwellings (exception to public accessibility requirement)

Clean Air Centers

Grant for Counties to deploy publicly accessible clean air centers during wildfire or other smoke events. Funds can be used towards:

- Facility ventilation upgrades
- Portable air cleaners
- Air filter replacements

Climate Tech Finance

Loan guarantees for entrepreneurs developing technologies that reduce greenhouse gases. Types of technologies include:

- Mobility
- Energy
- Circular economy

Bikeways (coming soon)

Grants for bikeway construction/installation projects to:

- Reduce motor vehicle emissions or traffic congestion
- Open by 2023

Incentives: For Businesses & Public Agencies

Diesel equipment replacement program

Trucks / Buses

- School buses
- Transit buses
- Heavy duty trucks



Freight /Marine

- Port equipment
- Locomotives
- Fishing vessels
- Tugboats



Off-road equipment

- Construction equipment
- Industrial equipment
- Transportation Refrigeration Units (TRUs)



Infrastructure

Support for clean fleets and equipment:

- Electric charging stations
- Hydrogen fueling stations

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Incentives: For Businesses and Public Agencies

Example Grants: Diesel Equipment Replacement Projects benefitting Oakland

- ~\$13,000,000 to AC Transit to replace 40 **diesel buses** with zero-emission buses and install charging infrastructure
- ~\$3,500,000 to Baydelta Navigation to replace four engines in a **tug-boat** that operates throughout the San Francisco Bay
- \$106,000 to Argent Materials for an **excavator** replacement
- \$25,000 - \$40,000 to truck owners to replace **heavy duty trucks** with cleaner trucks

Further Study, and Education and Outreach

- Further Study
 - To address remaining question(s) or support additional strategies
 - Field Studies / Research Efforts
 - Internal Assessments
 - White Papers
- Education and Outreach
 - Spare the Air and other campaigns
 - Social Media
 - Work with partners
 - Press

Example of a Strategy: Trucks in West Oakland

- Regulation:

- The **City of Oakland** develops a plan to limit the hours that trucks can operate in the community.
- **CARB** develops regulations to increase the number of zero-emission trucks operating in West Oakland (Advanced Clean Trucks regulation, amendment to Drayage Truck Regulation)

- Enforcement:

- **Caltrans** works with **WOEIP** and the **Air District** to address air quality issues from truck parking leases, such as by modifying leases to allow for collecting surveys and partnering with the Air District and CARB to allow enforcement access.

- Incentive:

- **Air District** offers financial incentives to replace long-haul diesel trucks with zero-emission trucks owned by West Oakland businesses every year.



Example of a Strategy: Trucks in West Oakland

- Further Study:
 - **Air District** will study the potential air pollution and health outcomes of allowing truck traffic on I-580 and designating a truck lane on I-880.
- Education and Outreach:
 - The **Air District** increases outreach and assistance to individual owner-operators and small companies by providing two workshops and enhanced outreach in West Oakland, (for fueling infrastructure, and for low and zero-emission equipment).

Question & Answer Panel

- **Regulations and Permitting:** Rules and Engineering Divisions
- **Enforcement:** Compliance and Enforcement Division
- **Incentives:** Strategic Incentives Division (SID) and Technology Implementation Office (TIO)

Next Steps

- This presentation focused on Air District Actions
- Next, through online learning, we will hear from city and county partners, as well as CARB, on partner strategies.

Public Comment

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Steering Committee Questions and Discussions

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The logo is contained within a rounded rectangular frame. It features the text 'RICHMOND - NORTH RICHMOND - SAN PABLO COMMUNITY' in blue, 'PATH TO' in brown dirt texture, and 'CLEAN AIR' in blue sky with clouds texture.

List of Community Air Pollution Concerns for Key Issues Framing

Kevin Olp, Senior Policy Advisor (Acting)
kolp@baaqmd.gov



Community Concerns as a Starting Point for Selecting Key Issues

“Most importantly, underpinning AB 617 is the understanding that community members must be active partners in envisioning, developing, and implementing actions to clean up the air in their communities.”

California Air Resources Board Community Air Protection Blueprint

“Through an equity-centered lens, community voices will be at the center of this process.”

Path to Clean Air Vision and Principles



Timeline of Documenting Community Concerns

- Community Air Monitoring Plan Community Steering Committee and Outreach Activities: September 2018 – July 2020
- Complaint System: 2018-2020
- Community Assets and Air Pollution Mapping Project: September through November 2021



Concerns from Community Air Monitoring Plan

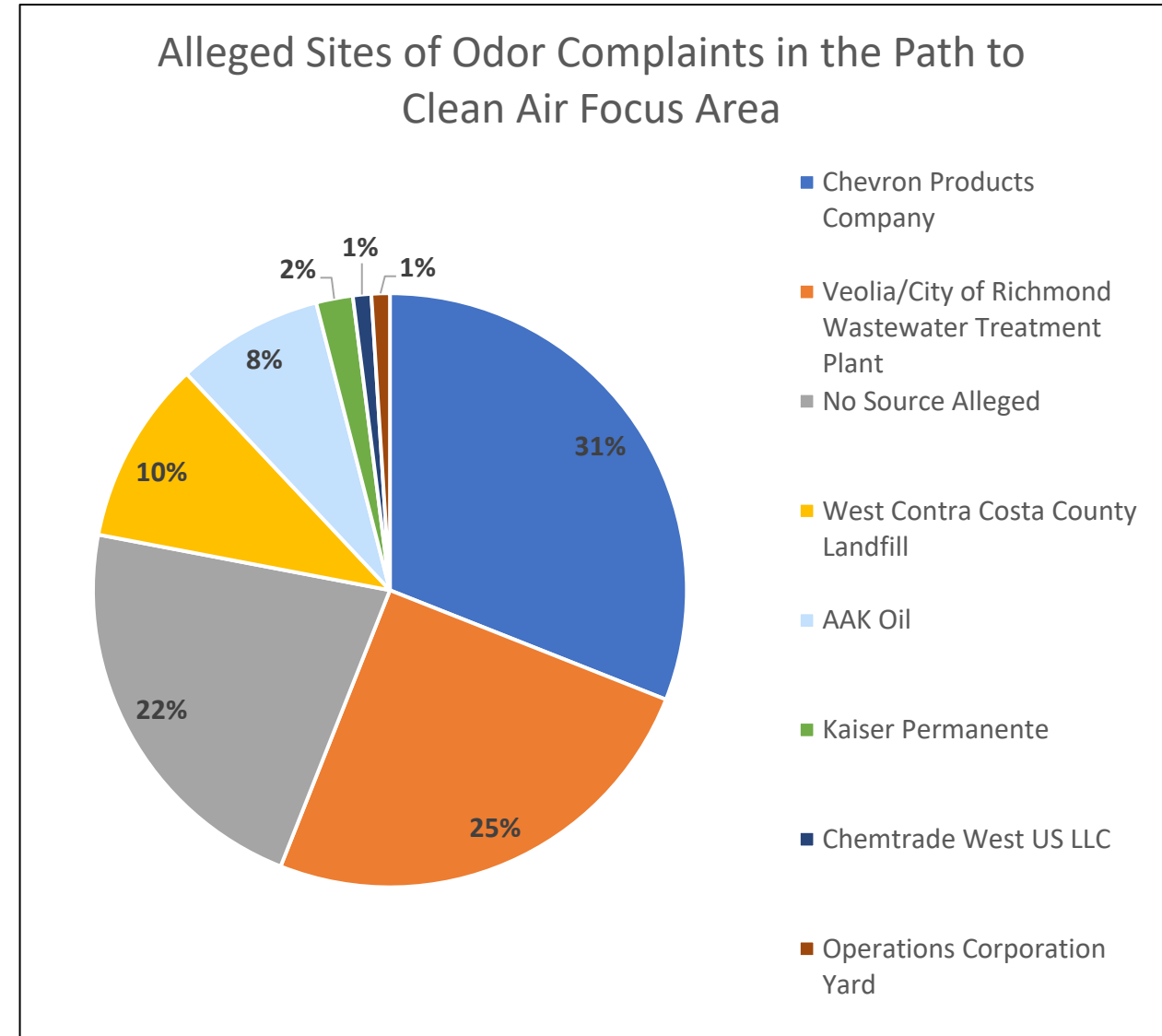
- **The Community Air Monitoring Plan Community Steering Committee (CAMP CSC)** developed a community air monitoring plan, designed to collect air quality data to provide real-time air quality information to the public and to inform the development of the CERP.
- As a part of this work, the CAMP CSC discussed their concerns about sources of air pollution during CSC discussions, small group activities, and mapping exercises.
- The air pollution concerns provided by the CAMP CSC and the community during these activities and discussions were documented and included in this list of community concerns.



*Community Air Monitoring Plan
Community Steering Committee
meeting mapping activity*

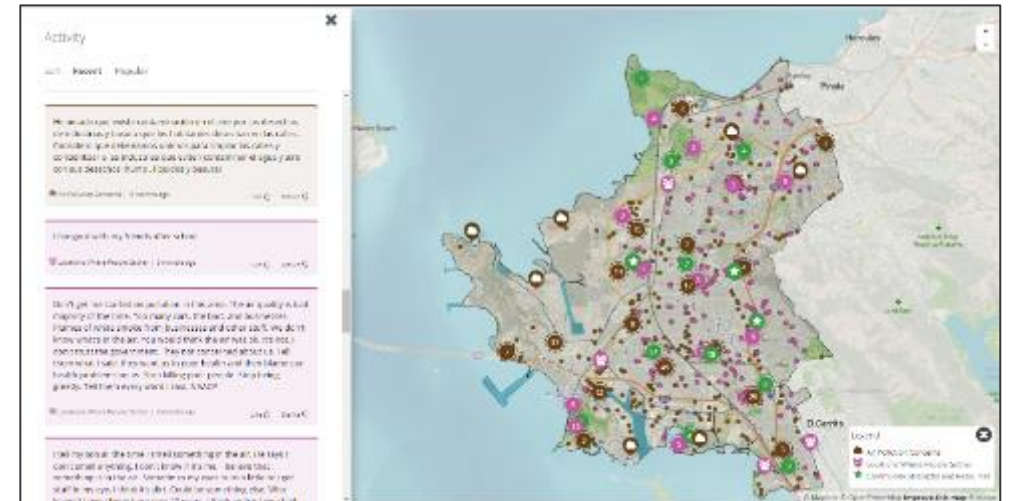
Complaint System

- The Air District responds to and investigates all **air quality complaints**.
- The Air District received 1,171 complaints in the Path to Clean Air area from 2018 – 2020 through the [Air District Air Quality Complaint Program](#).
- Sources of air quality complaints were included if they received over 10 public complaints during this timeframe.



Community Assets and Air Pollution Mapping Project

- The **Community Assets and Air Pollution Mapping Project**, was led by six nonprofit organizations from across the focus area.
- Organized and conducted outreach resulting in over 500 comments from the public regarding local pollution concerns, areas where people gather, and community strengths:
<https://rspcerp.mysocialpinpoint.com/ptca-mapping-project#/>.
- Concerns were identified from this list if 5 or more mentions in either the comments or survey responses were received.



Linking Community Concerns to Strategies

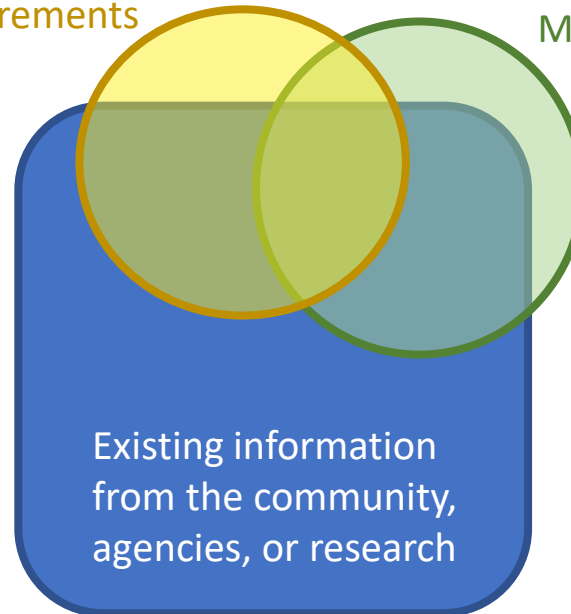
Community-Identified Concerns



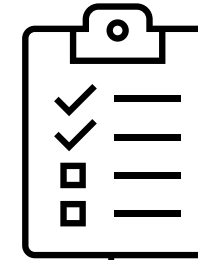
Understanding Key Issues

New Technical Information from Measurements

New Technical Information from Modeling



Insights Inform Key Issues



Strategies
to Reduce Pollution Emissions and Exposure

Setting **targets** and tracking **progress**

List of Community Concerns



Questions and Feedback on Initial List

This list was created as a starting point, but these are community concerns, so this is **your list** - we want to make it as useful and helpful of a document as possible.

1. There is a lot of technical jargon and Air District language, please flag areas where we could provide more explanation, or use more accessible language.
2. Are these categories clear? Do they make sense? Are there ways we can organize these concerns in a more intuitive way?
3. Is there anything missing from this list that is a known community concern you want us to add on this list?



Community Concern: Fuel Refining, Support Facilities, Storage, and Distribution

- **Chevron Richmond Refinery**
 - Flaring
 - Bioreactor ponds
 - Evaporative emissions from tanks, loading racks, and cooling towers
 - Ocean-going vessel activities at the long wharf
 - Contaminated land clean-up sites
 - Process heaters
 - Fluidized catalytic cracking unit (FCCU).
- **Chemtrade West LLC**
- **Fuel storage and distribution facilities**
- **Gas stations**



Emissions from the refinery were a major source of concern

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Industrial and Commercial Sources Near Communities

- Solid waste and recycling facilities
- Metal scrap facilities
- Auto body shops
- Aggregate facilities or materials handling
- Cemex Concrete batch plant
- Gold Bond Building Products, LLC
- Levin Terminal
- Restaurants, food trucks
- Backup generators (BUGs)
- Dry cleaners
- Construction and heavy diesel equipment
- Contaminated soil from hazardous waste clean-up sites
- Track out dust on local roadways
- Dust from construction, demolition, nurseries, and vacant lots



Construction and demolition can be a major source of particulate matter emissions

Odors and Smells

- West Contra Costa County Landfill
- City of Richmond Wastewater Treatment Plant (operated by Veolia)
- Fuel refining, storage and distribution
- AAK Oil
- Future facilities: Cannabis growing and processing
- Unidentified



If not managed properly, compost piles at businesses can be a major odor issue

Vehicles and Trucks, Streets and Freeways, and Logistics and Warehouses

- Freeways
- Diesel truck traffic and idling
- Local traffic and idling on congested surface streets
- Warehouses, truck related businesses and goods movement
- Exposure to traffic emissions from routes to schools
- Transportation sources at bus yards, BART, Amtrak
- Re-entrained road dust from paved and unpaved roads



Trucks can be a major source of diesel pollution



Marine and Rail

Marine

- Tugboats
- Ferries
- Ocean Going Vessels operations
- Other marine diesel sources

Rail

- General Rail activities
- Rail cars transporting coal and petroleum coke
- Rail yards
- Rail switching



Tugboats operating offshore may have older engines and be a significant source of Diesel PM

Promoting Public Health and Reducing Exposure

- Exposure from wildfire smoke
- Residential wood smoke
- Need for more health data and information about causes of respiratory health issues
- Sensitive receptor sites
- Incompatible land use development
- Lack of bike infrastructure
- Indoor Air Quality
- Lack of trees and urban vegetation
- Exposures for people in homeless encampments



Wildfire exposure is dangerous, especially for families that don't have proper preparation and resources

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Public Comment

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Environmental Justice Updates

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Next Meeting

- The Town Hall will be March 15th at 6pm
- Our next Steering Committee meeting will be on Monday, March 21, 2022 from 5:30 p.m. to 8:00 p.m. Agenda topics will include:
 - The Technical Assessment findings presentation #1
 - A compliance and Enforcement presentation of enforcement results from 2019-2021 in the focus area



Public Comment on Non-Agenda Matters

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