

Community Air Initiatives

Wilmington, Carson, West Long
Beach
Community Steering Committee
Meeting #4

*Thursday, March 14th, 2019
Wilmington, CA*



Making Progress

Community
Reported
Air Quality
Concerns

Air Quality
Concern
Prioritization

Strategies
and Proposed
Actions for
Reported Air
Quality
Concerns
(Part 2)

November

January

February

March

April

May

Community
Boundary
Discussion

Strategies
and
Proposed
Actions for
Reported Air
Quality
Concerns
(Part I)

Draft Air
Monitoring
Plan

Submit Air
Monitoring Plan
to the California
Air Resources
Board (CARB)

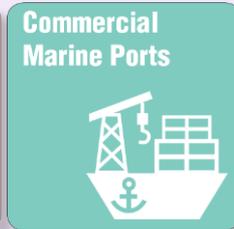
Draft Community
Emissions
Reductions Plan



Current Efforts:

**Indirect Source Rules (ISR) or
Facility Based Mobile Source
Measures**

Facility Based Measures



SCAQMD Board directed staff to develop approaches for five facility sectors:

Facility Based Mobile Source Measures included in **2016 Air Quality Management Plan** to reduce regional smog (ozone and fine PM)

- **Warehouses** – Pursue Indirect Source Regulation (ISR)
- **Rail Yards** – Pursue ISR
- **Ports** – Develop MOU with ports to implement Clean Air Action Plan (CAAP)
- **Airports** – Develop MOU with airports to create and implement Air Quality Improvement Plans
- **New/Redevelopment Projects** – Further study on potential ISR or other approaches

Indirect Source Rules (ISR)

SCAQMD can create and enforce rules to regulate **Indirect Sources**

*An “Indirect Source”
is a facility that
“attracts mobile sources”*

Important considerations for ISR

- **Air quality impact regionally and locally**
- **Limits on legal authority** (air district-state-federal, court decisions, preemption, etc.)
- **Implementation**
 - Complicated relationships between facility owners, operators, cargo owners, truckers, etc.
 - Rule must be **feasible for industry, and enforceable by air district**
- **Cost of regulation**
 - Cleaner vehicles (purchase price, fuels, infrastructure, incentives, etc.)
 - Health impact on community from emissions

Memorandum of Understanding (MOU)

Agreement between SCAQMD and the Ports of Los Angeles and Long Beach to achieve emission reductions

- MOU reductions form the basis for SCAQMD making emission reduction commitments to EPA
- Based on emission reduction benefits associated with implementation of ports 2017 Clean Air Action Plan (CAAP) measures with initial focus on:
 - **Clean Trucks Program**
 - **Cargo Handling Equipment Procurement Planning**
 - **Potential new incentive programs for ocean-going vessels**



Process

- Individual working groups and public process under way since 2017 for each facility sector
 - More info available at: www.aqmd.gov/fbmsm, e-mail listserv available at: www.aqmd.gov/sign-up
- Currently anticipated Public Hearings for SCAQMD Board to consider measure adoption:



November: **MOUs for airports and ports**
December: **Warehouse ISR**

Rail Yard ISR

Current Rule Development Efforts:

Best Available Retrofit Control Technology (BARCT)

Best Available Retrofit Control Technology (BARCT)

- Is defined in the California Health and Safety Code Section 40406

“...an emission limitation that is based on the maximum degree of reduction achievable, taking into account environmental, energy, and economic impacts by each class or category of source.”

- BARCT analysis is conducted for each equipment category and fuel type
- BARCT is reassessed periodically and is updated as technology advances
- AB 617 requires BARCT implementation by the end of 2023

Command-and-Control BARCT Rules

Adopted and Amended Rules



**Rules 1146, 1146.1
and 1146.2**
**Boilers, steam
generators, and
heaters**

*Amendments
adopted Dec. 2018



Rule 1118.1
**Control of
Emissions from
Non-Refinery
Flares**

*Amendments
adopted January
2019



Rule 1135
**Electricity
Generating
Facilities**

*Amendments
adopted Nov. 2018

Command-and-Control BARCT

Upcoming Key Rulemaking

PR: Proposed Rule

PAR: Proposed Amended Rule



PAR 1134 Gas Turbines

- Public Hearing:
April 2019

PAR 1110.2 Gaseous- and Liquid-Fueled Engines

- Public Hearing:
3rd Quarter
2019

PR 1109.1 Refineries

- Public Hearing:
Oct. 2019

PR 113 Monitoring, Reporting, and Recordkeeping (MRR)

- Public Hearing:
Oct. 2019

Command-and-Control BARCT

Additional Rulemaking

PR: Proposed Rule

PAR: Proposed Amended Rule



PAR 1147

Miscellaneous Combustion Sources

- 1st Working Group February 2019
- Public Hearing: Sept. 2019

PAR 1147.1

Large Miscellaneous Combustion Sources

- 1st Working Group February 2019
- Public Hearing: Sept. 2019

PR 1147.2

Metal Melting Facilities

- 1st Working Group April 2019
- Public Hearing: Nov. 2019

PR 1147.3

Aggregate Facilities

- 1st Working Group April 2019
- Public Hearing: Dec. 2019



More information on BARCT rulemaking

Working group and hearing deadlines:

- <http://www.aqmd.gov/home/rules-compliance/reclaim-transition>

**Initial Ideas for Actions in
the Community Emissions
Reduction Plan (CERP)
and Community Air
Monitoring Plan (CAMP)**

Prioritized Air Quality Concerns in Wilmington, Carson, West Long Beach

You have prioritized these Air Quality Concerns in this community:

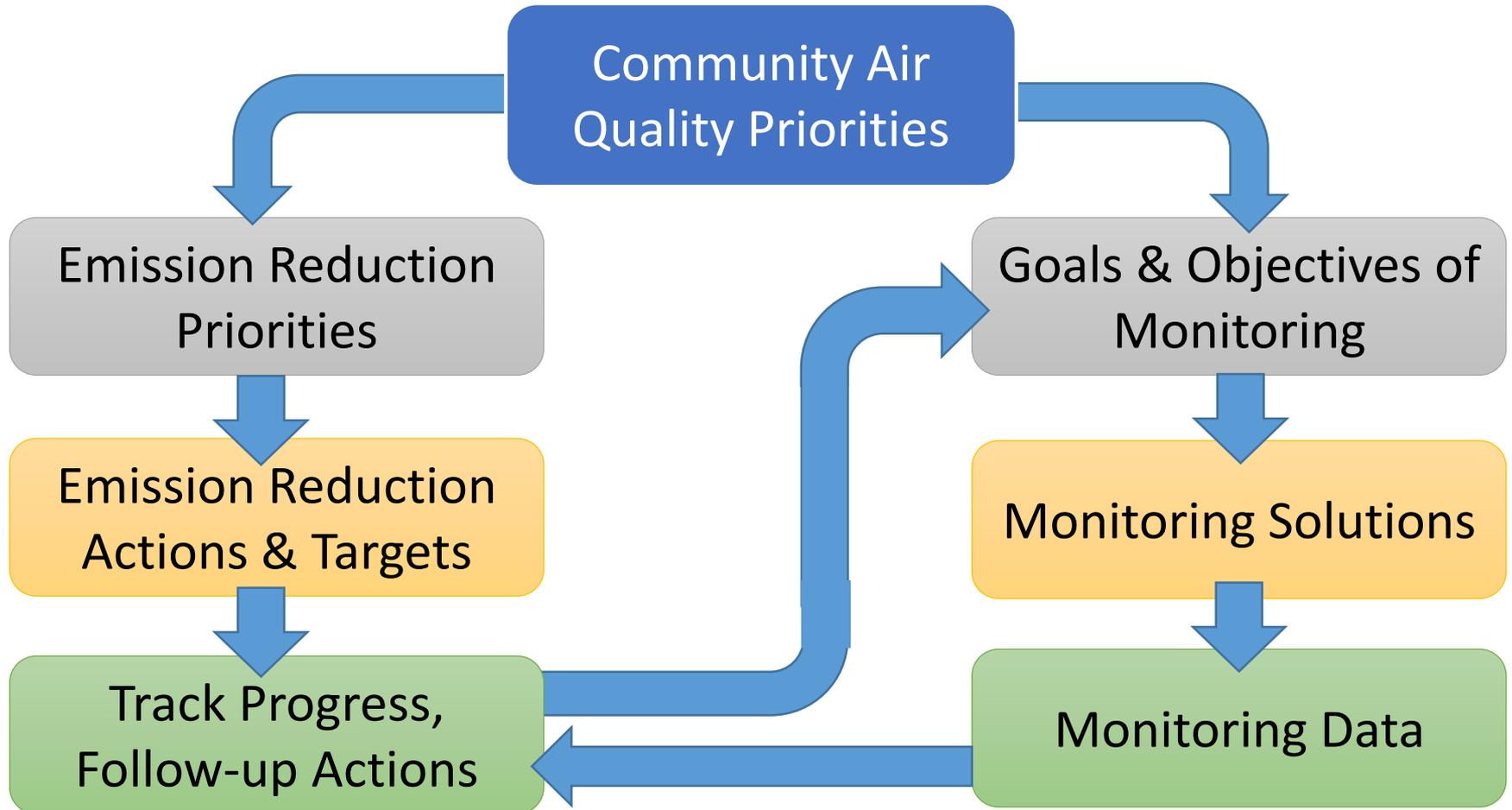
1. Refineries
 2. Ports
 3. Truck Traffic
- } Highest priorities

Today, we will focus on discussing actions to address these top 3 priorities

4. Oil Drilling/Production
5. Rail
6. Schools, etc.

} Additional priorities
To be discussed in April
(CSC Meeting #5)

Community Emissions Reduction Plan and Community Air Monitoring Plan



Deadline for CERP to be approved: September 2019

Deadlines for Air Monitoring Plan
Submit Plan: May 2019
Implementation: July 2019

Refineries (1 of 3)

Initial CERP Ideas

Flaring, Public Notifications



Monitoring:

- Monitor flare emissions using continuous monitoring (to improve public information)
- Post data onto SCAQMD website

Rules and Regulations:

- Rule 1118 amendment to reduce flaring
- Collect flare gas for beneficial use
- Expand vapor recovery systems

Public Information and Outreach:

- Improve flaring notification and information systems (for better public information)
- Update website information

These measures are either new or could have new components based on committee feedback and priorities

Refineries (2 of 3)

Initial CERP Ideas

Refinery Equipment



Rules and Regulations:

- BARCT implementation
 - Proposed Rule 1109.1 - Replace or retrofit existing equipment with best emission controls
- Potential Amendments to Rules 463,1149,1173,1178 - Vapor recovery on tanks, tank degassing, replacement of primary seals

These measures are either new or could have new components based on committee feedback and priorities

Refineries (3 of 3)

Initial CERP Ideas

Storage Tanks and Refinery Leaks



Monitoring / Enforcement:

- Mobile monitoring to identify leaks, with enforcement follow-up
- Rule 1180 fenceline and community monitoring

Public Information, Outreach, and Other:

- Implement notification systems
- Pressure release valve sensors and alarms

Rules and Regulations:

- Potential Amendments to Rules 463, 1149, 1173, 1178
 - Vapor recovery on tanks, tank degassing, replacement of primary seals

These measures are either new or could have new components based on committee feedback and priorities

Air Monitoring: Refineries

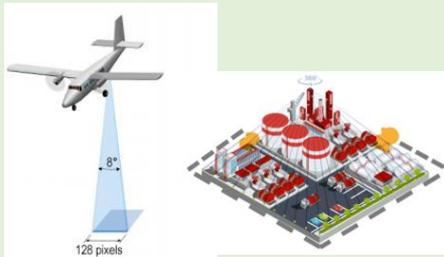
CSC Concerns and Available Monitoring Strategies

Source characterization

Continuous fenceline monitoring (**Rule 1180**)

Aerial measurements and optical tent (**MATES V**)

Mobile monitoring (**New**)



Community Exposure

Continuous community monitoring (**Rule 1180**)

Mobile monitoring (**EPA Community Scale Grant / New**)

Fixed site monitoring (**New**)



Emission Estimation

Mobile monitoring (**EPA Community Scale Grant / New**)



Leak Detection

Continuous fenceline monitoring (**Rule 1180**)

Mobile monitoring (**New**)

FLIR camera (**New**)



Ports (1 of 2)

Initial CERP Ideas

Ships and Harbor Craft



Monitoring / Enforcement:

- Monitoring to help identify oil tanker air pollution leaks
- Oil tanker inspections with infrared cameras and other technologies to detect air pollution leaks

Incentives:

- Retrofit and replace older harbor craft
- PRIMER program to encourage cleaner vessels at our ports
- Expand Vessel Speed Reduction program (CAAP)
- Technology demonstrations of cleaner ship engines

Rules, Regulations, and Agreements:

- Proposed CARB At-Berth Regulation to increase shore power use or equivalent control technology
- Enforceable MOU with Ports to reduce pollution from ships and harbor craft
- Rule 1142 amendments for tanker leaks

These measures are either new or could have new components based on committee feedback and priorities

Ports (2 of 2)

Initial CERP Ideas

Terminals



Rules, Regulations, and Agreements:

- Enforceable MOU with Ports to reduce pollution from cargo-handling equipment
- CARB Proposed Cargo Handling Equipment Regulation to transition to zero emission standards and efficiency improvements. This would apply to:
 - Yard trucks
 - Rubber tired gantry cranes
 - Container handlers
 - Forklifts

Incentives:

- Replace cranes, forklifts, rubber-tired gantry and trucks, with an emphasis on zero-emission technologies

These measures are either new or could have new components based on committee feedback and priorities

Air Monitoring: Ports

CSC Concerns and Available Monitoring Strategies

Source Monitoring

Fixed monitoring
(**SCAQMD** and **POLA/POLB**
Networks)

Mobile monitoring (**New**)

FLIR camera (**New**)



Community Exposure

Mobile monitoring
(**EPA Community Scale**
Grant / New)

Fixed monitoring (**New**)



Oil Tanker Leaks

Advanced monitoring
technology (**New**)

Mobile monitoring (**New**)

Fixed monitoring (**New**)



Neighborhood Truck Traffic

Initial CERP Ideas

(Slide 1 of 2)



Monitoring:

- Identify impacted community areas near truck traffic corridors with the highest levels of diesel pollution

Truck Traffic Data:

- Traffic counter data, or CARB license plate readers to identify “frequent flyers” for potential incentive funding

Enforcement:

- Focused idling sweeps targeting areas near schools and other impacted community areas

Incentives / Outreach:

- Replacement of old trucks for cleaner trucks through Prop 1B, Carl Moyer, and AB 617 funds
- Targeted outreach to heavy duty diesel equipment owners for potential incentives
- Charging infrastructure

Rules, Regulations, and Agreements

- Enforceable MOU with Ports to reduce pollution from trucks
- CARB Drayage Truck Regulation Amendment

These measures are either new or could have new components based on committee feedback and priorities

Neighborhood Truck Traffic

Initial CERP Ideas

(Slide 2 of 2)



Collaboration with Other Agencies

- Data on traffic flows
- Control travel time/ stoplights for traffic
- Potential ordinances on permissible truck routes and time of day when truck traffic allowed
- Potential ordinances on truck parking zones
- Buffer zones

These measures are either new or could have new components based on committee feedback and priorities

Air Monitoring: Neighborhood Truck Traffic

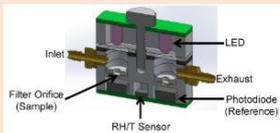
CSC Concerns and Available Monitoring Strategies

Source Monitoring

Mobile monitoring
(**MATES V / New**)

Fixed monitoring (**New**)

BC and VOC sensors (**New**)



Community Exposure

Mobile monitoring
(**MATES V / New**)

Fixed monitoring (**New**)

Sensor networks
(**MATES V / New**)



Special Interests

CARB license plate
camera system (**New**)

Traffic counters (**New**)

Fixed and mobile
monitoring (**New**)



Proposed Air Monitoring Approach

Mobile Monitoring

- Survey large areas
- Identify hotspots and unknown sources
- Support inspections and enforcement actions
- Inform emission reduction efforts



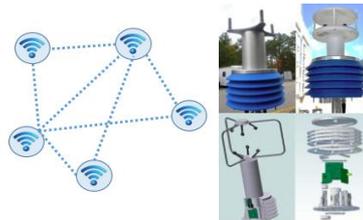
Fixed Monitoring

- Characterize emission sources
- Assess potential community exposure
- Support CERPs
- Track progress



Sensors

- Supplement fixed monitoring
- Engage and educate community
- Characterize spatial and temporal variations

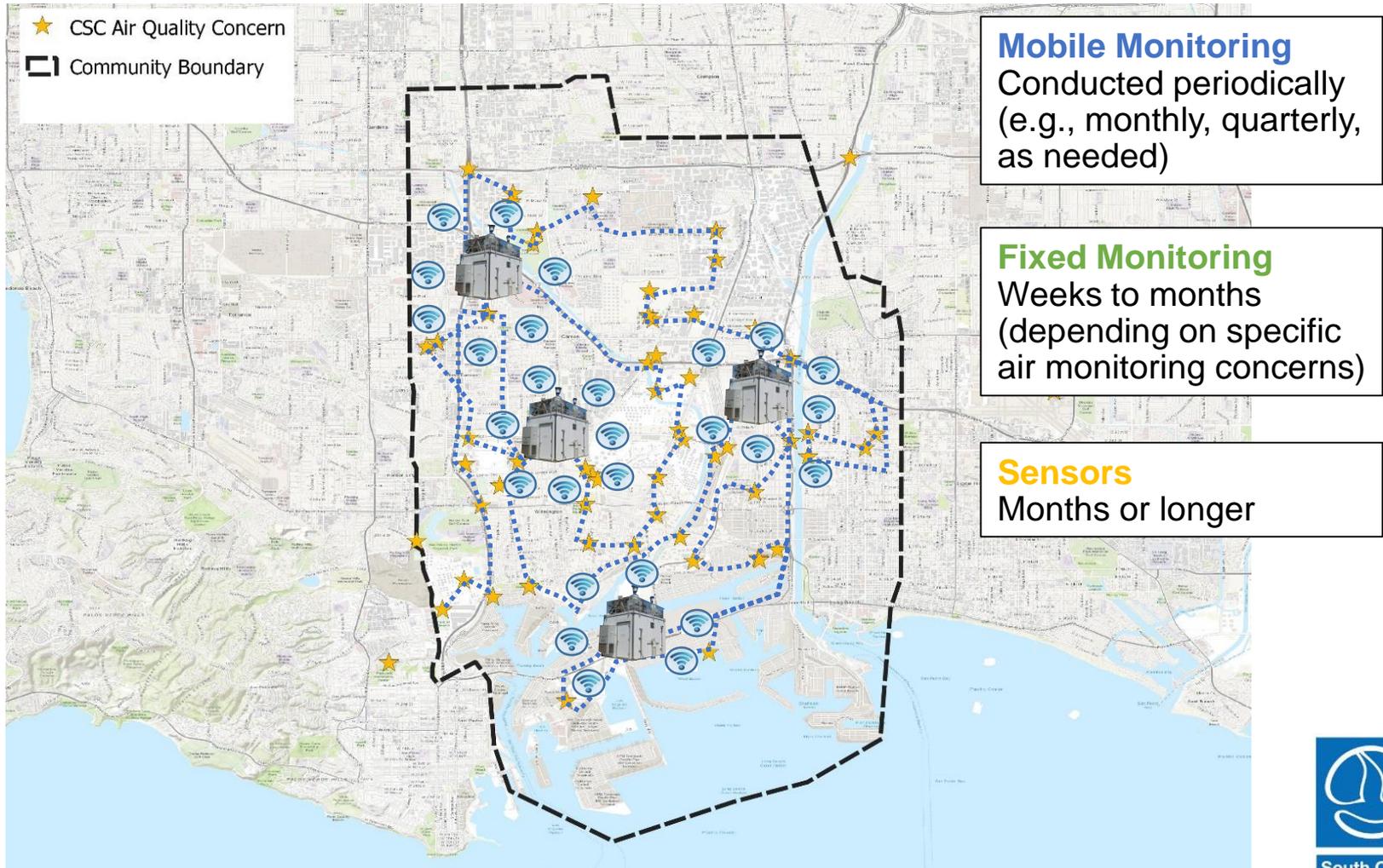


Assess

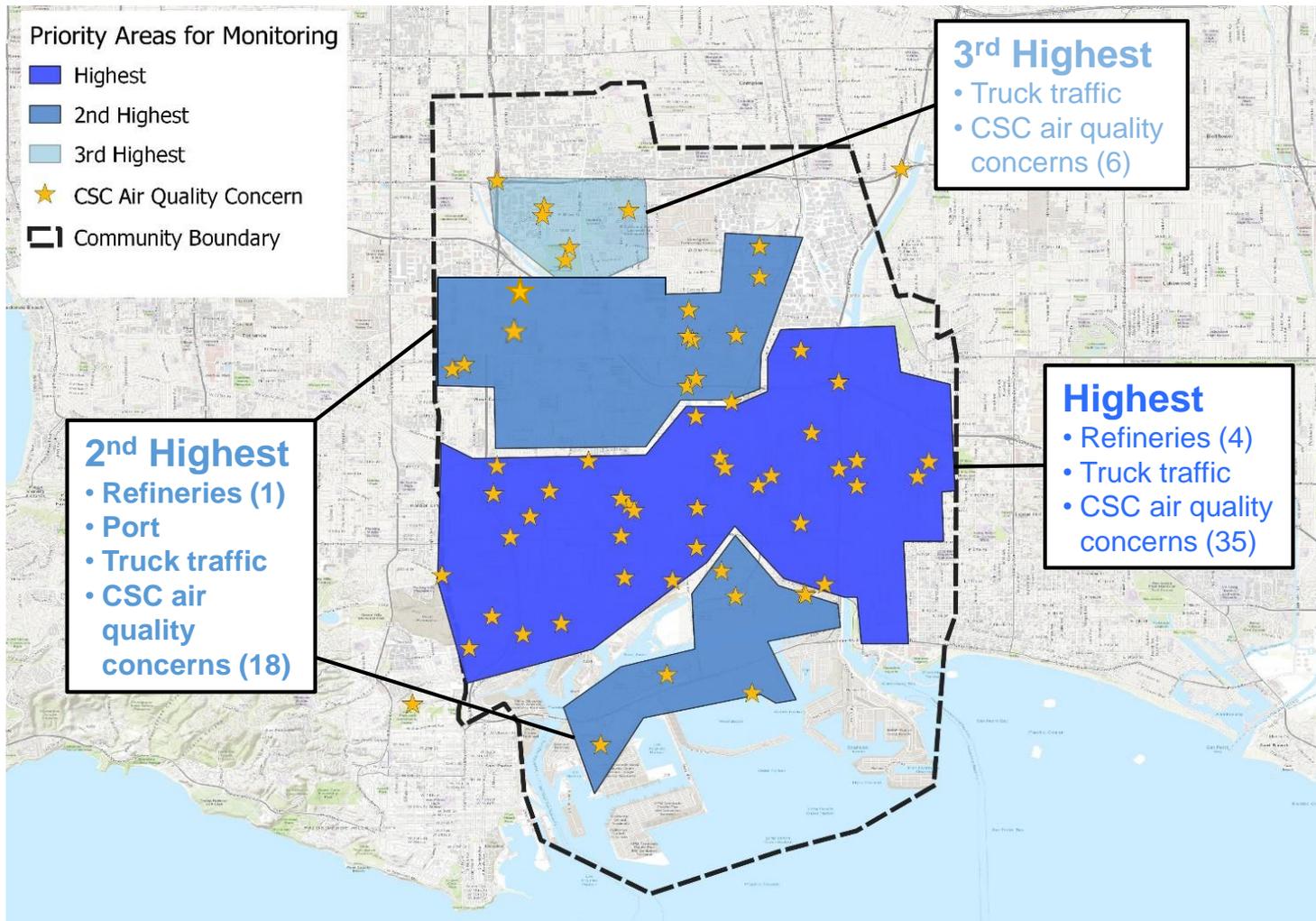
Review

Recommend

Proposed Air Monitoring Approach (Example)



Proposed Air Monitoring Approach (Prioritization)



Air Monitoring: Summary

- Community air monitoring plans and objectives are being developed based on community input, current knowledge of air pollution sources, and CERP measures
- Appropriate monitoring technologies and strategies will be selected based on the monitoring objectives
- Plans will be revised based on:
 - New information from large area surveys
 - Lessons learned from monitoring activities
 - Community feedback
 - Time needed to satisfy air monitoring objectives

Discussion Activity

- **Purpose:** So you can ask questions and provide input on these ideas for actions in the Plans
- **Format:**
 - Each group will discuss each of the 3 Air Quality Concern categories for 20 minutes.
 - Subject leads will be at each CSC table, and in the Public group. Subject leads will rotate for the 3 CSC tables.
 - Facilitator and Note Taker in each group.
 - Report Back and Q&A at the end of activity.



Activity Discussion Questions

1. Which of the proposed actions in this air quality concern category are the highest priorities?
2. Does the proposed monitoring approach support the other actions (enforcement, emission reductions)?
 - ❖ This is your opportunity to provide input to staff who will draft the air monitoring plan
3. What additional ideas do you have to address this air quality concern?
4. For Neighborhood Truck Traffic: What are the highest priority locations to address truck traffic or truck idling?

Next steps and important reminders

Future meeting dates and locations:

- CSC Meeting #5: April 11 (6 p.m.-8 p.m.) at Villages at Cabrillo

Future meeting potential topics:

- Discuss remaining Initial Ideas for Actions to address these priority Air Quality Concerns:
 - Oil Drilling/Production
 - Rail
 - Schools, etc.
- How to develop targets/goals
- Provide Feedback on draft Air Monitoring Plan

Next steps and important reminders

Technical Advisory Group (TAG):

Primary Member	Alternate Member
Jesse Marquez (Coalition for a Safe Environment)	Flavio Mercado (Active Resident – Wilmington)
Jill Johnston (USC)	
Uduak-Joe Ntuk (City of Los Angeles)	Tim DeMoss (Port of Los Angeles)

**Next TAG Meeting:
Late Spring
2019**

- Please **send us your biographies** as soon as possible
- Please **Sign the charter**

- Assembly Natural Resources Committee hearing on AB 617 on March 18 (info in March 8th email)

**Thank you
for the hard work!**

More information on AB 617:

www.aqmd.gov/AB617

Email: AB617@aqmd.gov

Follow us [@SouthCoastAQMD](https://www.instagram.com/SouthCoastAQMD)



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