Community Workshop

Topic	Workshop Table #
Community Emissions Reduction Plan (CERP)	Table 1
Community Air Monitoring	Table 2
Incentives	Table 3





Wilmington, Carson, West Long Beach Community Steering Committee Meeting #8

> Thursday, July 11, 2019 Wilmington Senior Center Wilmington, CA



Announcements

Community Tour

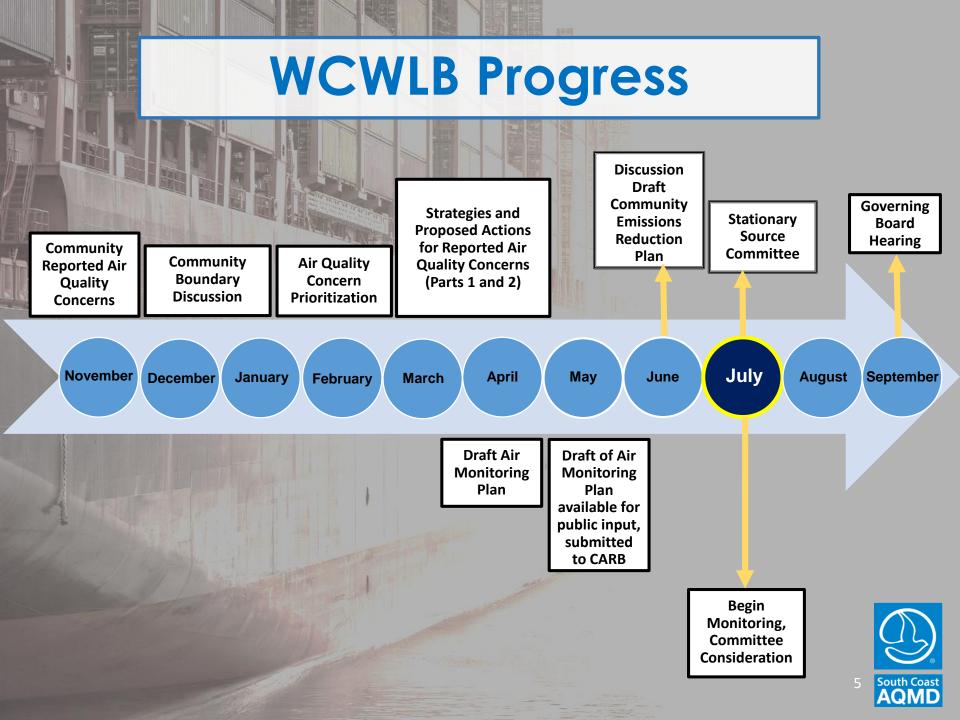
Please contact:
Ryan Stromar
rstromar@aqmd.gov
909-396-2637



Meeting Objectives

- Review Comments Received on Discussion Draft Community Emission Reduction Plan (CERP)
- Discuss CARB Enforcement Actions
- Update CSC on Community Air Monitoring







California Air Resource Board Enforcement Actions



California Air Resources Board Enforcement Efforts in Your Community Past, Present, and Future

July 2019

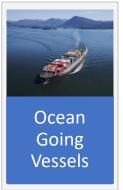
Wilmington – Carson – West Long Beach
AB 617 Community Steering Committee Meeting

CARB Enforcement Programs







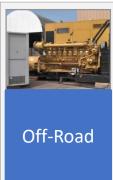
























CARB Past Enforcement Actions in the Wilmington – Carson – West Long Beach Community

Roughly 1200 heavy-duty vehicle and fuel inspections from 2015 – 2018; almost 2200 port inspections from 2015 -2018

Less than 100 heavy-duty vehicle, fuel, and port inspected units found in non-compliance from 2015 -2018

Settlement Agreement (SA) actions - Railroads

CARB Supplemental Environmental Projects in SCAQMD



Map of Enforcement Activities 2015 - 2018

Diesel vehicles activity 2015 – 2018



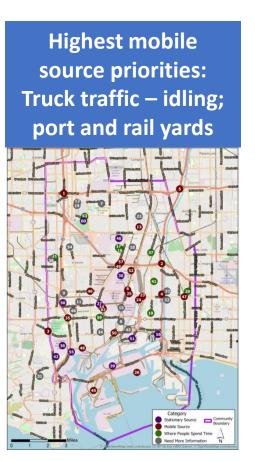
Port activity 2015 - 2018



2194 total inspections at ports from 2015 -2018

48 violations

19 pending cases





CARB Three-Year Enforcement History 2016 - 2018 for Wilmington – Carson – West Long Beach Community

Year/Type	HDVIP	Off-Road	Statewid e Truck & Bus	Fuels	Total
2016 Field Inspections	20	0	20	246	286
2016 Non-compliant	0	0	0	0	0
2016 % Compliance	100%	N/A	100%	100%	100%
2017 Field Inspections	0	3	0	290	293
2017 Non-compliant	0	3	0	15	18
2017 % Compliance	N/A	0%	N/A	95%	94%
2018 Field Inspections	0	1	0	208	209
2018 Non-compliant	0	0	0	1	1
2018 % Compliance	N/A	100%	N/A	99.5%	99.5%
Total 2016 – 2018 Inspections	25	3	20	744	788
Total 2016 - 2018 Non-compliant	0	3	0	16	19
Total 2016 - 2018 % Compliance	100%	25%	100%	98%	98%



Enhanced Enforcement: Additional Fleet Audits (STEP – Streamlined Truck Enforcement Program)

In addition to roadside inspections, we also conduct fleet audits

Between Jan 2018 to May 2019, 286 fleets were audited in WCWLB

A total of 859 vehicles were audited

Registration holds were placed on 389 of those vehicles and 63 were brought into compliance



Upcoming and in Progress CARB Enforcement Actions in Your WCWLB Community

Focused roadside and idling enforcement in and around your community in June/July 2019

Focused enforcement in railyards and ports for cargo handling equipment

Settlement Agreement actions

Supplemental Environmental Projects – Over \$400k school air filters in SCAQMD



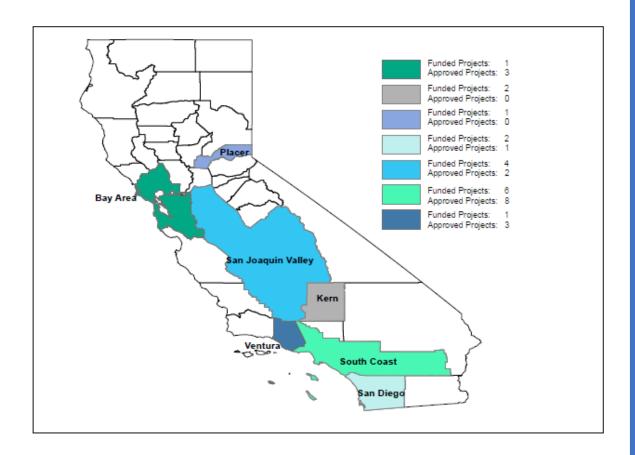
Supplemental Environmental Projects (SEPs)

SEPs are communitybased projects funded from a portion of the penalties received during **CARB** settlement of enforcement actions.





Six funded SEPs in SCAQMD



Examples of Projects:

- Paid environmental education internships
- Planting trees
- Writing articles to inform community about air pollution and resources
- Conducting research (e.g., air monitoring, truck traffic survey)
- School air quality education programs and filtration systems



More SEPs are Possible in Your Community by Submitting a Project Proposal

If project meets requirements to right:

Please submit a proposal by filling out a SEP Proposal Form (https://calepa.ca.gov



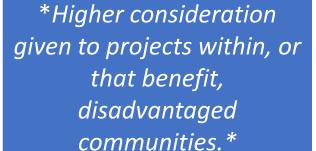
Reduce direct/indirect air emissions or exposure to air pollution



Relate to the violation



Not benefit the violator





Go above and beyond regulatory requirements



Possible CARB Enforcement Actions for your Community



Truck Idling Sweeps Coordinated with SCAQMD



Targeted Enforcement of our Regulations



Outreach/MOUs/Educational Material



Additional Consumer Products/Fuels Enforcement



Questions, Input, Brainstorming

What do you want to know more about? What ereative enforcement/outpeach solutions can we explore together to



CARB Enforcement Contacts

Visit the TruckStop for more detailed compliance info.: www.arb.ca.gov/truckstop or contact CARB's diesel hotline at 866-6DIESEL (866-634-3735) or email:

8666diesel@arb.ca.gov.

To report a violation to CARB:

Call 1-800-END-SMOG (288-7664) or report online at:

https://calepa.ca.gov/enforcement/complaints

CARB Community Outreach and Enforcement Section:

COES@arb.ca.gov



CARB Enforcement Resource Slides

California Air Resources Board



CARB Enforcement Role in Wilmington – Carson –West Long Beach CERP

Compile three-year enforcement and compliance history within the community corridor

Provide statistics CSC can use to establish compliance goals and identify enforcement-related strategies in the CERP

Create community-led joint district and CARB enforcement plan within the CERP

Conduct enforcement actions within the CERP

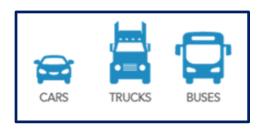
Monitor and reevaluate within five years



CARB Responsibilities

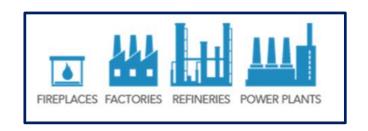


Protect public health from the harmful effects of air pollution and developing programs and actions to fight climate change.





Implement and enforce local, state and federal air pollution control laws and regulations applicable to stationary sources.





SB 1: Registration Requirements

Starting in 2020, in order to register a truck or bus subject to CARB's regulations with the California Department of Motor Vehicles (DMV), that vehicle needs to be in compliance according to the following schedule:

Heavier Vehicles (>26,000 pounds gross vehicle weight)				
Vehicle Model	DMV Begins			
Year	Compliance			
	Verification			
2000 and older	January 1, 2020			
2001 – 2005	January 1, 2021			
2006 – 2007	January 1, 2022			
2008 – 2010	January 1, 2023			

Lighter Vehicles (14,001 – 26,000 pounds gross vehicle weight)				
Vehicle Model	DMV Begins			
Year	Compliance			
	Verification			
2004 and older	January 1, 2020			
2005 – 2007	January 1, 2021			
2008 – 2010	January 1, 2023			



Truck and Bus Rule and Idling Restrictions Enforcement

- Statewide Trucks and Buses: All vehicles with 2009 or older engines weighing over 14,000 pounds must reduce exhaust emissions by upgrading to 2010 or newer engines by 2023. SB 1 will deny DMV registration to non-compliant vehicles. https://www.arb.ca.gov/msprog/onrdiesel/documents/tbfinalreg.pdf
- Idling Trucks and Buses: CARB conducts idling sweeps to ensure regulatory truck and bus idling limits are not exceeded. Those limits are:
 - Up to five minutes in areas other than schools and more than 100 feet from other restricted areas such as residential areas, hotels/motels, hospitals, and senior and child care facilities.
 - Newer engines (2008+) shut down automatically after five minutes of idling or are low NOx emissions DPM filtered exhaust engines.
 - Truck and bus idling is prohibited at schools with a few exceptions.
 - Truck and buses with Clean Idle stickers are exempt.



Ports and Railyards Enforcement Programs

We are in ports and railyards regularly enforcing these regulations:

- Drayage: Drayage vehicles move goods by certified heavy-duty diesel vehicles (HDV). HDV that enter a
 port or intermodal facility are required to be certified to meet clean emission standards.
 https://www.arb.ca.gov/msprog/onroad/porttruck/finalregdrayage.pdf
- Commercial Harbor Craft: This regulation is intended to reduce diesel particulate matter and nitrogen oxides emissions from diesel engines used on commercial harbor craft operated in California waters located within 24 nautical miles of the California coast. The regulation includes requirements for new and in-use (existing) engines as well as monitoring, recordkeeping, and reporting requirements. https://ww2.arb.ca.gov/our-work/programs/commercial-harbor-craft
- Ocean Going Vessels: This regulation is designed reduce particulate matter, nitrogen oxides, and sulfur oxide emissions from ocean-going vessels. https://www.arb.ca.gov/ports/marinevess/ogv/ogvrules.htm
- **Shore Power**: The purpose of the At-Berth Regulation is to reduce emissions from diesel auxiliary engines on container ships, passenger ships, and refrigerated-cargo ships while berthing at a California Port. https://www.arb.ca.gov/ports/shorepower/shorepower.htm
- Cargo Handling Equipment: ARB staff investigates opportunities to reduce idling emissions from cargo handling equipment used at ports and intermodal rail yards. https://www.arb.ca.gov/ports/cargo/cargo.htm



Heavy-duty Vehicle Inspection Program (HDVIP)

We conduct regular roadside heavy-duty vehicle inspections for the following:

- HDVIP Diesel Emission Fluid: Diesel engines equipped with Selective Catalytic Reduction (SCR) all use a liquid urea solution as the reductant, known commonly as diesel exhaust fluid (DEF). This fluid is used in the SCR to reduce NOx emissions. https://www.arb.ca.gov/msprog/onrdiesel/regulation.htm
- HDVIP Emission Control Label: Engine certification labeling requirements that certify that engines meet clean emission standards. https://www.arb.ca.gov/enf/hdvip/bip/bip.htm
- HDVIP Smoke/Tampering: Requires heavy-duty trucks and buses to be inspected for excessive smoke and tampering. https://www.arb.ca.gov/enf/hdvip/bip/finalreg.pdf



Other Vehicle Enforcement Programs

- Off-Road: Regulations aimed at cleaning up 'off-road' construction equipment such as bulldozers, graders, and backhoes. These requirements are in place to help ensure that diesel soot filters are installed on off-road equipment. https://www.arb.ca.gov/msprog/ordiesel/documents/finalregorder-dec2011.pdf
- SmartWay: The Tractor-Trailer Greenhouse Gas Regulation requires 53-foot or longer dry van or refrigerated van trailers and the tractors that pull them on California highways to use certain equipment that the U.S. Environmental Protection Agency SmartWay program has verified or designated to meet their efficiency standards. https://arb.ca.gov/cc/hdghg/technologies.htm
- Transport Refrigeration Units: Inspect secondary engines to ensure TRUs meet labeling and clean air requirements. https://ww3.arb.ca.gov/diesel/tru/documents/fro 10-16-12.pdf
- Solid Waste Collection Vehicles: Fleet-based regulation requiring retrofit or purchase of cleaner engines to reduce diesel particulate matter emissions. https://www.arb.ca.gov/msprog/swcv/swcv.htm



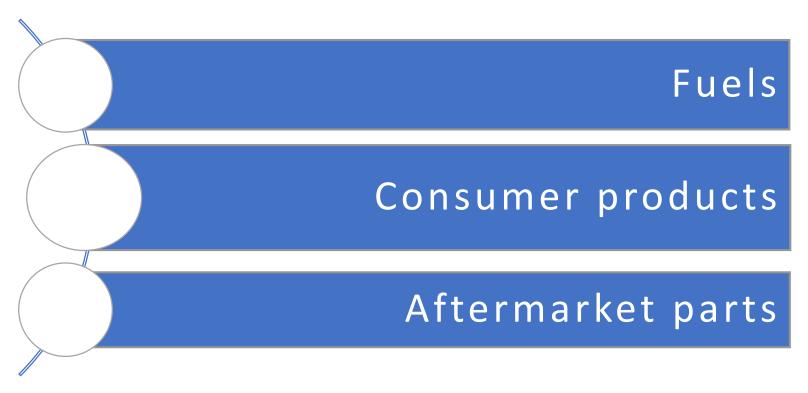
Other Enforcement Programs

- **Fuels**: CARB enforces our regulations related to gas, diesel, and racing fuels as well as storage of fuels from refineries through transportation to distribution at fuel service stations. https://www.arb.ca.gov/enf/fuels/fuels.htm
- Consumer Products: Consumer Products CARB enforces the regulatory requirements for chemically formulated consumer products, fuel containers, and indoor air cleaning products that emit volatile organic compounds, toxic air contaminants and greenhouse gases, and include the following products: cleaning compounds; composite wood products, floor finishes; cosmetics; personal care products; home, lawn, and garden products; aerosol paints; and automotive specialty products. https://www.arb.ca.gov/consprod/consprod.htm; https://www.arb.ca.gov/enf/compwood.htm



Additional Enforcement Activities

We are working on compiling complete enforcement activity for the CERP from 2016 – 2018. We have partial additional data for the following programs:





Fuels Enforcement Criteria

Fuels enforcement activity focuses on inspections of fuels and storage tanks

Diesel, gas and racing fuels inspections

Low Carbon Fuel Standard enforcement ensures reported emission reductions are real to promote a level playing for all fuel suppliers

Fuels must meet formulation standards at production, transport, and dispensing facilities

Cargo tank vapor recovery

Ensures reduced VOC emissions from gasoline cargo tanks



Consumer Products Enforcement Criteria

Account for over ten percent of VOC emissions that contribute to smog formation statewide and can also emit carcinogenic toxic air contaminants.

Who needs to comply?

Manufacturers, marketers, distributors, wholesalers, retailers, and consumers

Specific examples of what is enforced

Enforces limits of formaldehyde, a carcinogenic toxic air contaminant, for composite wood products

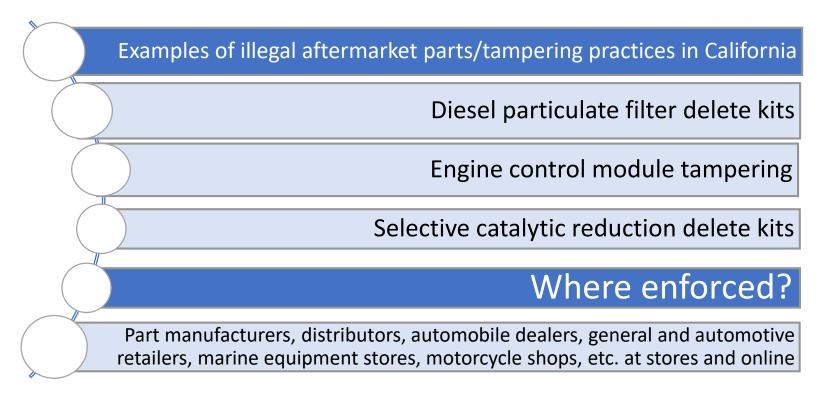
VOC emissions limits enforced for aerosol coatings

Antiperspirants/deodorants must be free of toxic air contaminants and meet VOC emissions limits



Aftermarket Parts Enforcement Activities

We ensure new add-on and modified aftermarket parts demonstrate that they do not adversely affect emissions or emission control systems.





Enforcement Process



Identify and report a potential violation

Evaluate information

Notify responsible party

Opportunity to discuss

Outcomes, remedies & penalties



All of these are Potential Violations















Reporting

Reporting potential violations of air quality requirements can provide important information for enforcement:



calepa.ca.gov/enforcement/complaints



1 (800) END-SMOG



1(800) CUT-SMOG



Evaluating Information

Inspections: Site visits to learn about potential violations

Determine compliance status and required actions

Write inspection reports

Issue compliance documents









Notice of Violation (NOV)/Citation

Process to notify responsible party for violations

Based on excess emissions

Listing facts, laws, and regulations

Include CARB enforcement contact information





Opportunity to Discuss



Responsible party may provide further facts for consideration by CARB regarding NOV



This discussion often becomes a negotiation between CARB and the responsible party



Outcomes/Remedies



Appropriate pollution prevention actions

Settlement Agreements / Case resolution

Penalties: Designed to remove any economic benefit from responsible party and deter future violations



Examples of Settlement Agreements in SCAQMD

Railyard drayage truck violations

UP agreed to truck turn away program through 2020 and paid fines

BSNF instituted truck compliance Rail Pass reporting system and helped fund a local SEP through fines

Refinery tank fuel sampling exceeded limits

Paid fines

Oceangoing vessels exceeded fuel sulfur emissions within coastal waters Paid fines

And many more...

See CARB annual enforcement reports for statewide enforcement efforts https://www. arb.ca.gov/en f/reports/rep orts.htm



Summary of SEPs in SCAQMD



Community teen paid internship conducting hands-on climate change teaching and research projects for visitors at the California Science Center



South LA Urban Greening and Community Forestry Project will plant and maintain 300 trees over five years in public parkways with the help of local volunteers raising awareness and restoring ecosystem functions



Community Voices on Health and the Environment will hire three community members to write monthly articles identifying environmental health hazards and community member resources in Wilmington



CFASE Survey of Freight Truck Transportation Corridors will gather data needed for community and government entities to develop future land use planning policy in Wilmington



Kids Making Sense air monitoring/improving air quality grades 6 -12 education and empowerment program offered at local schools, including Dana Middle School in San Pedro to help students and community members improve air quality and reduce their exposure to air pollution



School Air Filtration Systems SEP will install IQ Air filtration systems in schools throughout the South Coast Air Quality Management District in the second half of 2019



Committee Presenters

- AB 617 is a collaborative effort
- Seeking volunteer Community Steering Committee (CSC) members to present
- Highlight efforts within the Wilmington, Carson, West Long Beach (WCWLB) community that could be part of the AB 617 Community Emission Reduction Plan (CERP)
- Who would you like to hear from?
 - · Let us know!

Marathon Petroleum Company

Susan Stark

Regulatory Affairs Manager

[Placeholder slide for Marathon]



Discussion Draft CERP Comments Received and Comment Process

• Submitted comments may be viewed here:

http://onbasepub.aqmd.gov/publicaccess/DatasourceTemplate Parameter.aspx?MyQueryID=257&OBKey 1409 1=WIL

- Comments considered for Stationary Source Committee
 - CSC Meeting #7 CERP Discussion, June 13, 2019
 - Comments received by June 24, 2019
- Expected release of next Draft: July 19, 2019 for Stationary Source Committee
- Ongoing comment period until August 2, 2019



Discussion Draft CERP Wilmington, Carson,

West Long Beach

Examples of General Comments Received for Discussion Draft CERP

Summary of Comment	Response
Discuss funds allocated to date, how investments will achieve quantifiable results and community benefits, and how groups can support sustained funding	 AB 134 funded projects shown in CSC Meeting #1 South Coast AQMD staff is: Identifying options for distribution of funds among communities Quantifying potential emission reductions targets based on funding levels Seeking public input on path forward
Identify an emissions baseline and establish emission reduction targets in the CERP	 The Draft CERP will be available on July 19, 2019, including: Source attribution data, Preliminary emission reduction targets (e.g., based on AB 617 funding levels), and Methods for tracking emission reductions

Examples of General Comments Received for Discussion Draft CERP (continued)

Summary of Comment	Response
Establish community level-health data (public health baseline) to link emissions reductions to improved health outcomes	Air quality improvements can help reduce asthma and respiratory disease symptoms. However, many other factors contribute to health outcomes, and short-term health benefits are difficult to assess, especially with the information that is available.
Place additional emphasis on zero-emissions technology (including renewable energy sources)	The Draft CERP will include provisions that prioritize zero-emissions technologies based on certain criteria such as availability, cost, etc.
 Provide an analysis for: Enforcement activities Effectiveness of existing rules 	 The draft CERP includes provisions for South Coast AQMD staff updates at future CSC meetings on enforcement activities (e.g., truck idling) Other enforcement agencies, such as CARB, the City or County may also provide enforcement updates to the CSC

Examples of Comments Received for Ch. 5 of Discussion Draft CERP

Summary of Comment	Response
Revise the CERP to include provisions that further reduce emissions from refineries (e.g., eliminate or reduce flaring, reduce emissions from storage tanks, etc.)	 The CERP uses various actions and strategies to reduce emissions from refineries, such as: Air monitoring to identify and address VOC leaks, Evaluating methods to reduce refinery flaring emissions through amendments to Rule 1118 (e.g., increasing capacity to vapor recovery systems, etc.) South Coast AQMD staff is in the process of developing new and amended rules that target emission reductions from refineries, for example, Proposed Rule 1109.1 – NOx Emissions Reductions for Refinery Equipment

Examples of Comments Received for Ch. 5 of Discussion Draft CERP

Summary of Comment	Response
Go above and beyond the 2017 San Pedro Bay Ports Clean Air Action Plan (CAAP) (e.g., emissions cap)	 South Coast AQMD staff is pursuing an MOU with the San Pedro Bay Ports based on the 2017 CAAP The next Working Group meeting on the MOU is scheduled for July 24, 2019 Notifications for the working group are available by signing up at: http://www.aqmd.gov/sign-up
Improve existing grant programs for port trucks	South Coast AQMD staff is reviewing opportunities to improve funding programs to accelerate implementation of cleaner vehicles
Submit recommendations to CARB on new and proposed amendments to regulations	The Discussion Draft CERP includes provisions to support CARB's rule development process for the proposed At-Berth Regulation and future updates to Commercial Harbor Craft Regulation



Community Air Monitoring Updates



Fixed Monitoring



Mobile Monitoring



Special Project



Community Air Monitoring Website



Community Air Monitoring Data Display



Fixed Monitoring

Baseline

Purpose: to provide information about general air quality conditions in this community and track progress

Continuous, realtime monitors:

CO, NOx, O₃, black carbon (BC), ultrafine particles (UFP)

24 hr time-integrated samples (1 in 6 days):

- Metals, including Cr6+
- **VOC** compounds
- Carbonyls



Near-Road

Purpose: to provide representative pollutant exposure information for people who live, work, or go to school near freeways

Continuous, realtime monitors:

PM2.5, CO, NOx, O₃, BC, UFP



Fixed Monitoring

Baseline

Purpose: to provide information about general air quality conditions in this community and track progress



Near-Road

Purpose: to provide representative pollutant exposure information for people who live, work, or go to school near freeways





Mobile Monitoring

- Mobile measurements began in June 2019
- 2019 schedule is ongoing
- Multiple purposes:
 - Surveys: Wide area monitoring to identify potential "hotspots"
 - Source Identification: "Chasing" pollution plumes to identify specific source(s) of air pollution
 - Source Characterization: To better understand the composition and variability of known emissions sources
 - Compliance Support: To provide data to support more robust monitoring, investigation activities, and enforcement actions

Mobile Monitoring: Platform 1 Example



Target Pollutants: Diesel exhaust NO_2 , CO, O_3

Target Air Quality Priority:

Ports, truck traffic

Purpose:

- Identify diesel PM hotspots
- Assess exposure impact of transportation corridors and idling spots
- Track progress of targeted emission reduction strategies

Mobile Monitoring Concept Results to be Added...



Mobile Monitoring: Platform 2 Example



Target Pollutants: Volatile organic compounds (VOCs)

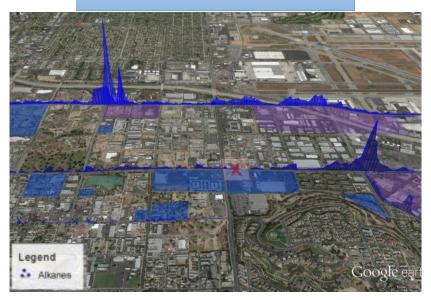
Target Air Quality Priority:

Refineries, oil wells, ports

Purpose:

- Leak detection
- Characterize facility-wide emissions
- Concentration mapping and hotspots identification
- Assess potential community exposure to air toxics

From 2015 measurements





Fixed and Mobile Monitoring: **Special Project**

Purpose: to expand on previous mobile measurements that detected elevated levels of air toxic metals in West Rancho **Dominquez**

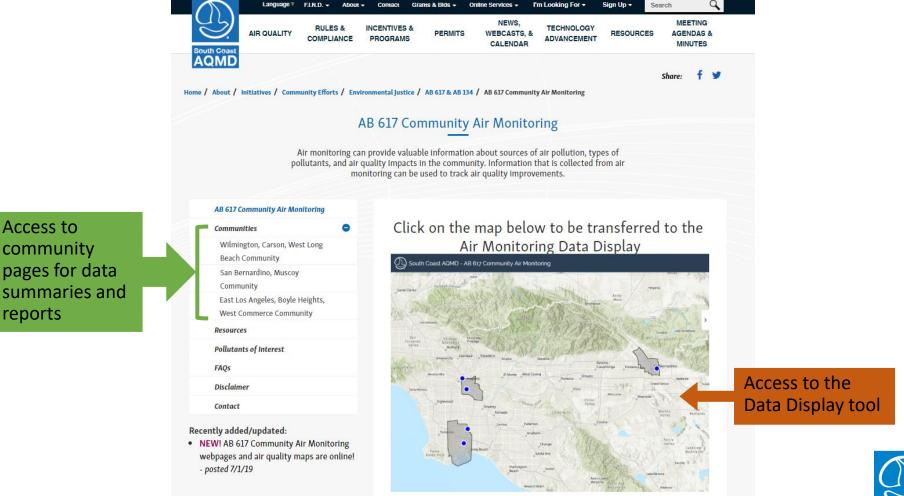
Both fixed and mobile measurements are currently ongoing to identify potential source(s) of emissions that contribute to elevated levels of air toxic metals.

See the Poster





Community Air Monitoring Website



Access to

reports

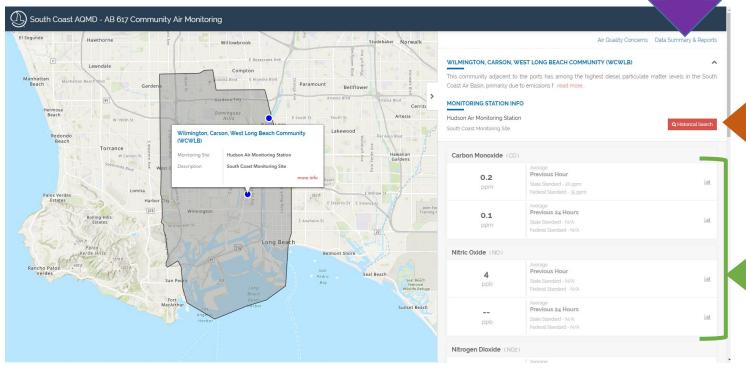
Data Display and Access

New functions will be added to the Data Display tool over time

Would like CSC feedback

ppakbin@aqmd.gov

Access to Data Reports and Summaries: Mobile monitoring results, special projects



24-hr timeintegrated data are available several days to weeks after sampling and can be accessed through "Historical Search" button

All continuous air monitoring data are displayed in near real-time



http://xappprod.agmd.gov/AB617CommunityAirMonitoring/Home/Index/WCWLB



Next steps and important reminders

Future meeting date and location:

 CSC Meeting #9: August 7th (10:00 a.m. – 12:00 p.m.) at Carson Community Center

Likely agenda items for CSC Meeting #9:

- Stationary Source Committee Recap
- Draft Final CERP
- Governing Board Process Overview
- Community Air Monitoring Update

Is the CSC okay with these topics?

Any additional topics?

Proposed Roster Update:

- Request CSC to add Jesse Koons as the alternate for Fe Koons.
- Request CSC to add Conor Langlois in place of Amber Coluso as the alternate for Tim DeMoss
- Does the committee have any concerns?

Next steps and important reminders

Upcoming meetings of interest:

- Technical Advisory Group (TAG) Meeting
 - Thursday July 18th at 9:00 a.m. at South Coast AQMD Headquarters
- Ports Memorandum of Understanding (MOU) Working Group #2 Meeting
 - Thursday, July 24th at 2:00 p.m. at South Coast AQMD Headquarters
- Stationary Source Committee
 - Friday, July 26th at 10:30 a.m. at South Coast AQMD Headquarters
 - Meeting will be webcast: https://www.aqmd.gov/home/newsevents/webcast

Important Dates and Deadlines

- Next Draft of CERP to be released July 19, 2019
- Next CERP comment period ends August 2, 2019
- Draft Final CERP to be submitted to Governing Board September 6, 2019



