

AB 617: SAN BERNARDINO / MUSCOY

CO-HOSTS:
ANGIE BALDERAS
DANIEL WONG

4th Quarter - 2021

RESIDENT TESTIMONIAL

Jason Martinez

Resident of San Bernardino

CERP & CAMP IMPLEMENTATION

UPDATE – 4TH QUARTER 2021

San Bernardino, Muscoy
November 17, 2021

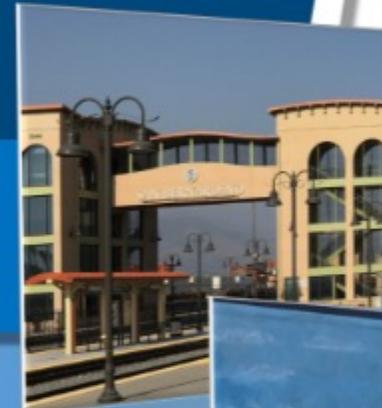
ASSEMBLY BILL (AB) 617
COMMUNITY AIR INITIATIVES

COMMUNITY EMISSIONS REDUCTION PLAN

SAN BERNARDINO,
MUSCOY

JULY 2019 DRAFT

SOUTH COAST
AIR QUALITY MANAGEMENT DISTRICT



COMMUNITY EMISSIONS REDUCTION PLAN (CERP) IMPLEMENTATION

- **PR 2306 – Rail Indirect Source Rule**
- **Draft In-Use Locomotive Regulation (CARB)**

**PROPOSED RULE 2306:
RAIL INDIRECT SOURCE RULE**

PR 2306 – Rail Indirect Source Rule



South Coast Air Quality Management District

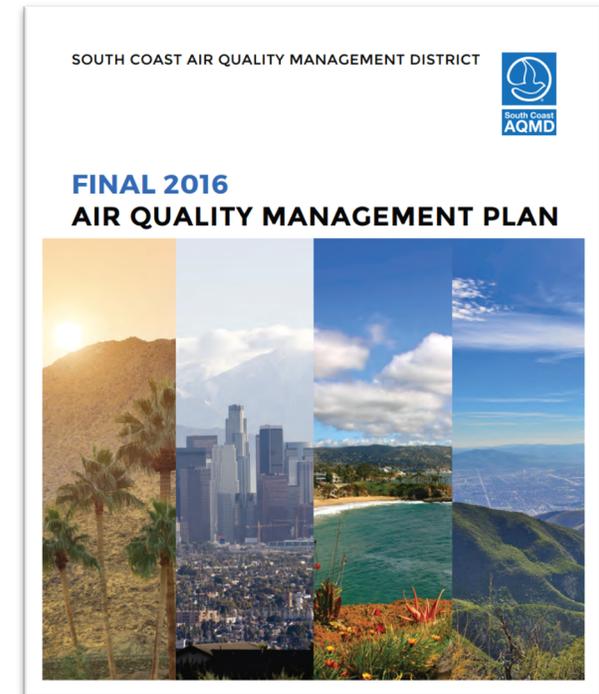
Proposed Rule 2306 - Indirect Source Rule for New Intermodal Facilities

COMMUNITY STEERING COMMITTEE

NOVEMBER 2021

Background

- ❑ 2016 AQMP included control measure MOB-02: Rail Yard and Intermodal Facilities
- ❑ Goal of MOB-02 is to assist in implementing the State SIP Strategy “Further Deployment of Clean Technologies” measures In May 2018 the South Coast AQMD Governing Board directed staff to initiate rulemaking for MOB-02
- ❑ AB 617 requires air agencies to identify priorities and actions to reduce toxic air contaminants and criteria pollutants in disproportionately affected communities
- ❑ Emissions from railyards have been identified as areas of concern and an air quality priority in the CERPs in four of the AB 617 communities



Proposed Rule 2306 – Indirect Source Rule for New Intermodal Facilities

- ❑ PR 2306 is designed to partially implement MOB-02 by focusing on new intermodal facilities
- ❑ In general, new intermodal facilities include new facilities where locomotives and truck transportation modes are used for conveying goods
- ❑ Through the rulemaking process staff will work with stakeholders to identify criteria to identify new intermodal facilities that would be applicable to PR 2306
- ❑ Considerations include:
 - Number of containers moved
 - Potential emissions related to federal NO₂ standards, attainment of federal ambient air quality standards, and/or general conformity
 - Proximity to Environmental Justice communities

Overview of Rule Development Process



About PR 2306 Working Group Meetings



Includes all environmental and community representatives, businesses, agencies, equipment vendors



Objective is to build consensus and to work through key issues through communication



All information about PR 2306 and Working Group Meetings is on website at: [PR 2306 - Indirect Source Rule for New Intermodal Facilities \(aqmd.gov\)](http://aqmd.gov)



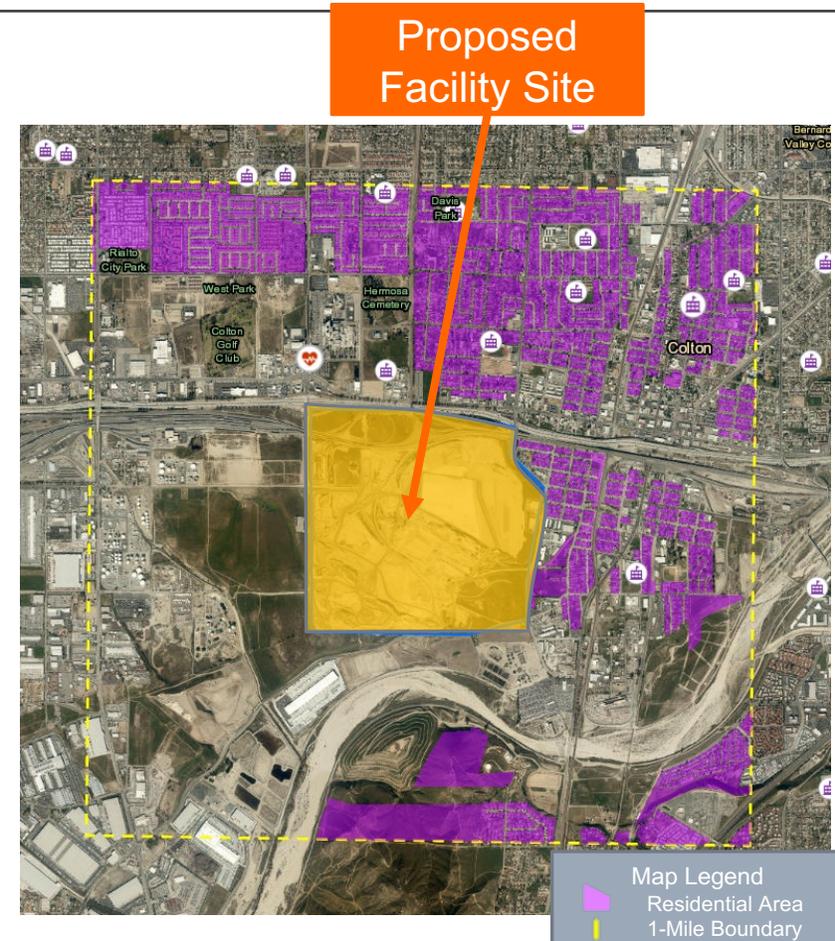
Working Group Meetings held general once every one to two months

Two New Proposed Intermodal Facilities in the South Coast Air Basin

- ❑ There are two new proposed intermodal facilities:
 - Freight Component of the California High-Speed Rail Project in Colton
 - Southern California International Gateway (“SCIG”) by the Port of Los Angeles
- ❑ Both facilities would be operated by Burlington Northern Santa Fe (“BNSF”) and are currently under environmental review
- ❑ Unique opportunity exists now to ensure that these new proposed intermodal facilities:
 - Implement the cleanest technologies feasible
 - Incorporate infrastructure to support zero emission technologies
 - Include measures that minimize air quality and public health impacts
 - Address community air quality priorities identified in CERPs

Communities Near Colton Intermodal Facility¹

- ❑ Communities immediately northeast and east of the facility all score in the top 95th percentile, meaning they experience the greatest pollution burden compared to other areas in the state
- ❑ 45,600 residents, one hospital, and ten schools are within a one-mile radius
 - Average 69% of population are reported to be below the poverty level
 - Average 77% of population are Hispanic or African American
- ❑ 18,100 residents are located in census tracts within 1,000 feet of the proposed facility boundaries²



¹ South Coast AQMD Staff. ArcGIS and CalEnviroScreen 3.0 tool. June 2021.

² Air Quality and Land Use Handbook: A Community Health Perspective. April 2005. California Environmental Protection Agency and California Air Resources Board. Accessed at: <https://ww3.arb.ca.gov/ch/handbook.pdf>

Communities Near SCIG³

- ❑ Multiple communities within a one-mile radius score in the top 95th percentile
 - Communities experience the greatest pollution burden compared to other areas in the state
 - One community to the immediate east of the proposed facility score in **the top 99th percentile**
- ❑ 50,200 residents, seven schools and a Veteran Housing Facility are within a one-mile radius from the facility
- ❑ 12,000 residents are located in census tracts within 1,000 feet⁴ of the proposed facility boundaries
- ❑ Average 71% of population are reported to be below the poverty level
- ❑ Average 61% of population are Hispanic or African American



³ South Coast AQMD Staff. ArcGIS and CalEnviroScreen 3.0 tool. June 2021.

⁴ Recommended distance of at least 1,000 feet for siting new sensitive land uses next to a major service and maintenance rail yard. Air Quality and Land Use Handbook: A Community Health Perspective. April 2005. California Environmental Protection Agency and California Air Resources Board. Accessed at: <https://ww3.arb.ca.gov/ch/handbook.pdf>

Need for PR 2306



Minimize emissions from equipment used at New Intermodal Facilities



Minimize Public Health Impacts to Surrounding Environmental Justice Communities from New Intermodal Railyards



Ensure Project Will Not Interfere with Attainment of Federal Air Quality Standards



Ensure Project will Meet Federal Conformity Requirements

Next Steps

- ❑ Third Working Group Meeting scheduled for Wednesday December 8th, 2021 at 10:00 AM
- ❑ Will continue Working Group Meetings
- ❑ Public Hearing tentatively scheduled for third quarter of 2022

Staff Contacts

General Questions	Proposed Rule 2306	
Susan Nakamura Assistant Deputy Executive Officer 909-396-3105 SNakamura@aqmd.gov	Shawn Wang Air Quality Specialist 909-396-3319 SWang@aqmd.gov	Yunnie Osias Air Quality Specialist 909-396-3219 YOsias@aqmd.gov
	Lijin Sun Program Supervisor 909-396-3308 LSun@aqmd.gov	Michael Morris Planning and Rules Manager 909-396-3282 MMorris@aqmd.gov

Sign up for the mailing list at: <http://www.aqmd.gov/sign-up> (select Rule 2306)

**DRAFT IN-USE LOCOMOTIVE REGULATION
(CARB)**

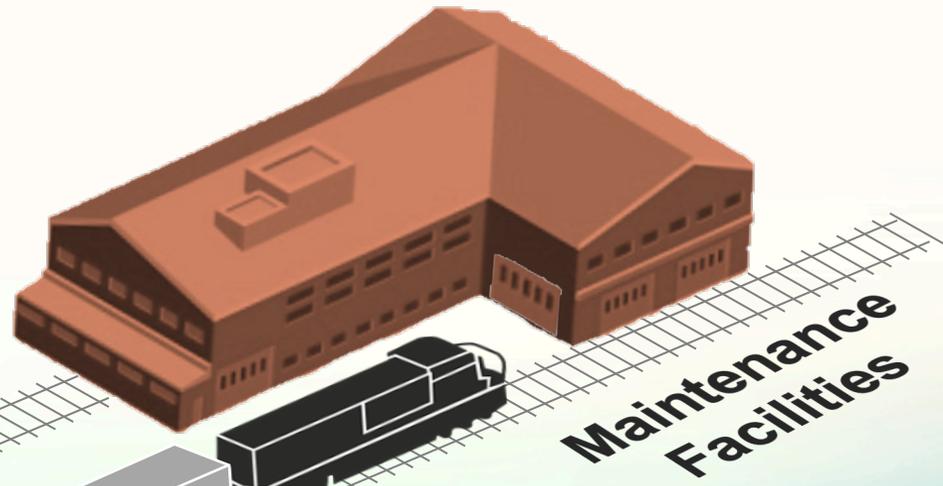
**Draft In-Use Locomotive Regulation
(CARB)**



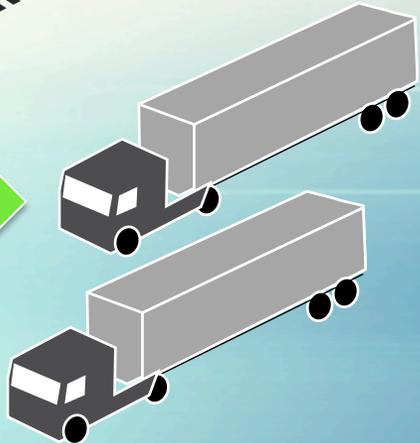
Draft In-Use Locomotive Regulation

November 17, 2021

Locomotives
Reduce older engine use
Reduce Idling



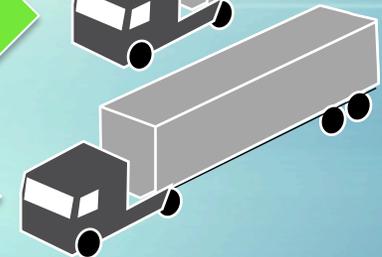
Truck Fleets
Transitioning to ZE



Cargo Handling Equipment
Transitioning to ZE



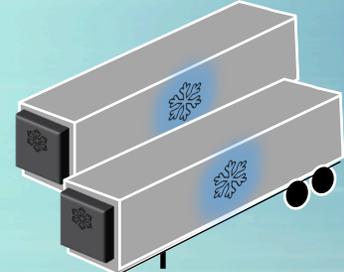
Drayage Trucks
Transitioning to ZE



Forklifts
Transitioning to ZE



TRUs
Transitioning to ZE



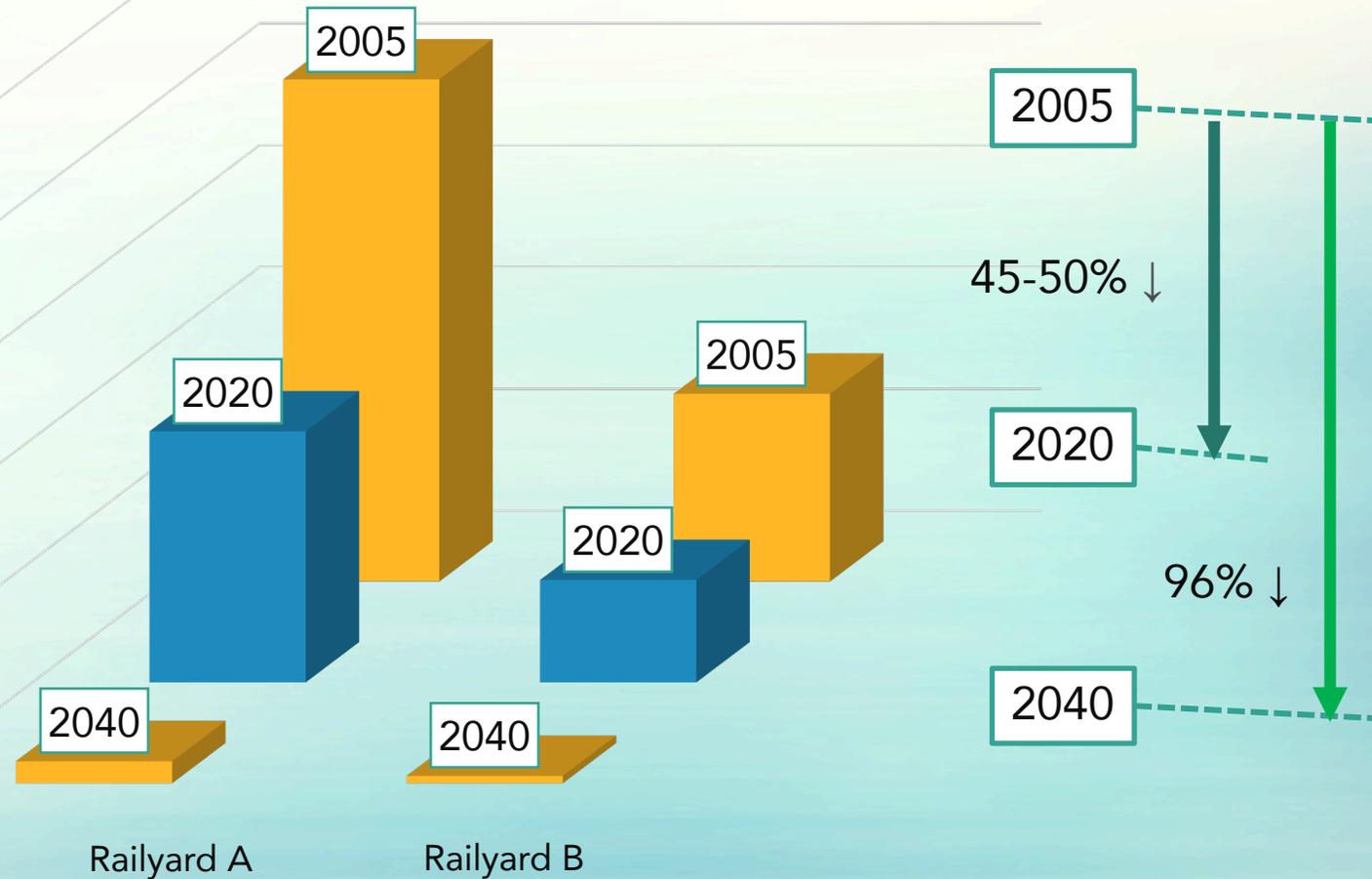
Previous Class 1 Railroad Agreements



- 1998 Locomotive NOx Fleet Average Emissions Agreement in the South Coast Air Basin – **through 2030**
- 2005 Statewide Railyard Agreement - **Completed**
 - HRAs, CARB diesel, and idling

Cancer Risk From Locomotives

Average Risk within 1 Mile of the Railyard



Locomotives

New Regulation for Board Consideration in 2022



- No current California regulation for locomotives
- A California regulation is needed to provide emissions reductions in rail communities
- CARB staff regulatory concepts (still in development):
 - Spending Account
 - In-Use Operational Requirements
 - Idling Limit
 - District Level Reporting

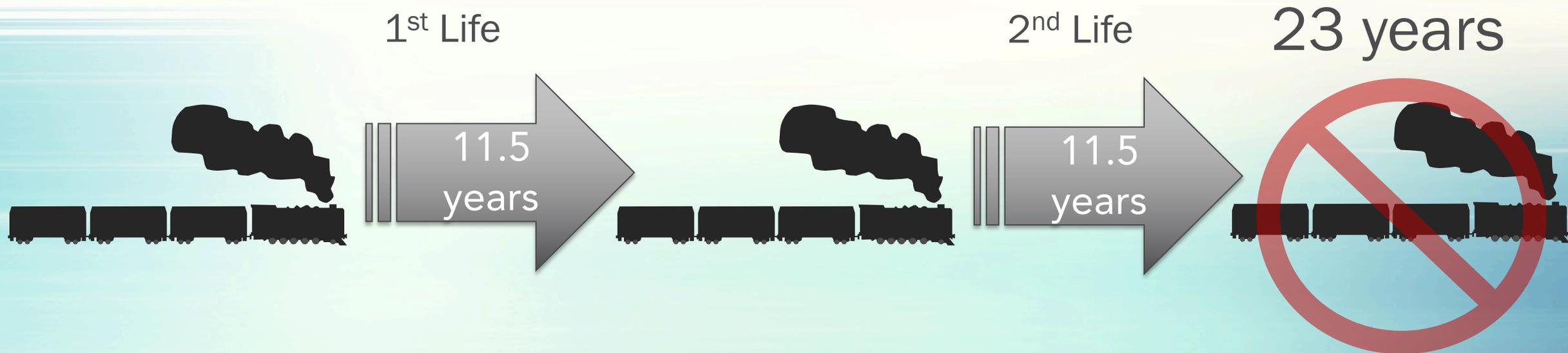
Spending Account



Trust Fund



In-Use Operational Requirements



- Can operate over 23 years if it meets requirements

More Information

The screenshot shows the California Air Resources Board (CARB) website page for "Reducing Rail Emissions in California". The page features a navigation bar with social media icons, a search bar, and a menu with options like "ABOUT", "OUR WORK", "RESOURCES", "SERVICES", "RULEMAKING", "NEWS", and "EQUITY". The main content area includes a sidebar with links for "About", "Resources", "Concepts to Reduce Emissions", "Meetings & Workshops", "Verifications, Demonstrations, and Incentives", and "Subscribe". The main text describes CARB's efforts to understand and reduce locomotive and railyard emissions, including studies, regulations, and funding. A "LEARN MORE" button is present. Below the text are three featured articles: "Draft Truck vs. Train Emissions Analysis", "Beyond Tier 4 Locomotives", and "Enforceable Agreements".

Reducing Rail Emissions in California [← BACK TO ALL PROGRAMS](#)

Reducing Rail Emissions in California

About

Resources

Concepts to Reduce Emissions

Meetings & Workshops

Verifications, Demonstrations, and Incentives

Subscribe

CARB has developed and implemented measures to understand and reduce locomotive and railyard emissions in California, including studies, regulations, enforceable agreements, and funding of clean technology.

[MORE ABOUT THIS PROGRAM >](#)

Concepts to Reduce Emissions from Locomotives and Railyards

In the absence of federal action to address harmful emissions from locomotives CARB is developing a regulation to reduce criteria pollutants, toxic air contaminants, and greenhouse gas emissions for locomotives in-use.

[LEARN MORE](#)

PRIMARY CONTACT

Freight Transport Branch

Email freight@arb.ca.gov

Phone (916) 322-8382

CATEGORIES

Topics Freight & Goods Movement, Trains & Railyards

Division Transportation and Toxics Division

Draft Truck vs. Train Emissions Analysis
Comparison of Truck and Train Emissions

Beyond Tier 4 Locomotives
CARB Locomotive Petition to U.S. EPA

Enforceable Agreements
CARB Agreements with Class 1 Railroads

- Website: <https://ww2.arb.ca.gov/our-work/programs/reducing-rail-emissions-california>
- Contact: Layla.Gonzalez@arb.ca.gov or Freight@arb.ca.gov

CAMP IMPLEMENTATION UPDATE



NOVEMBER 2021



AB 617: SAN BERNARDINO / MUSCOY

San Bernardino, Muscoy
November 17, 2021

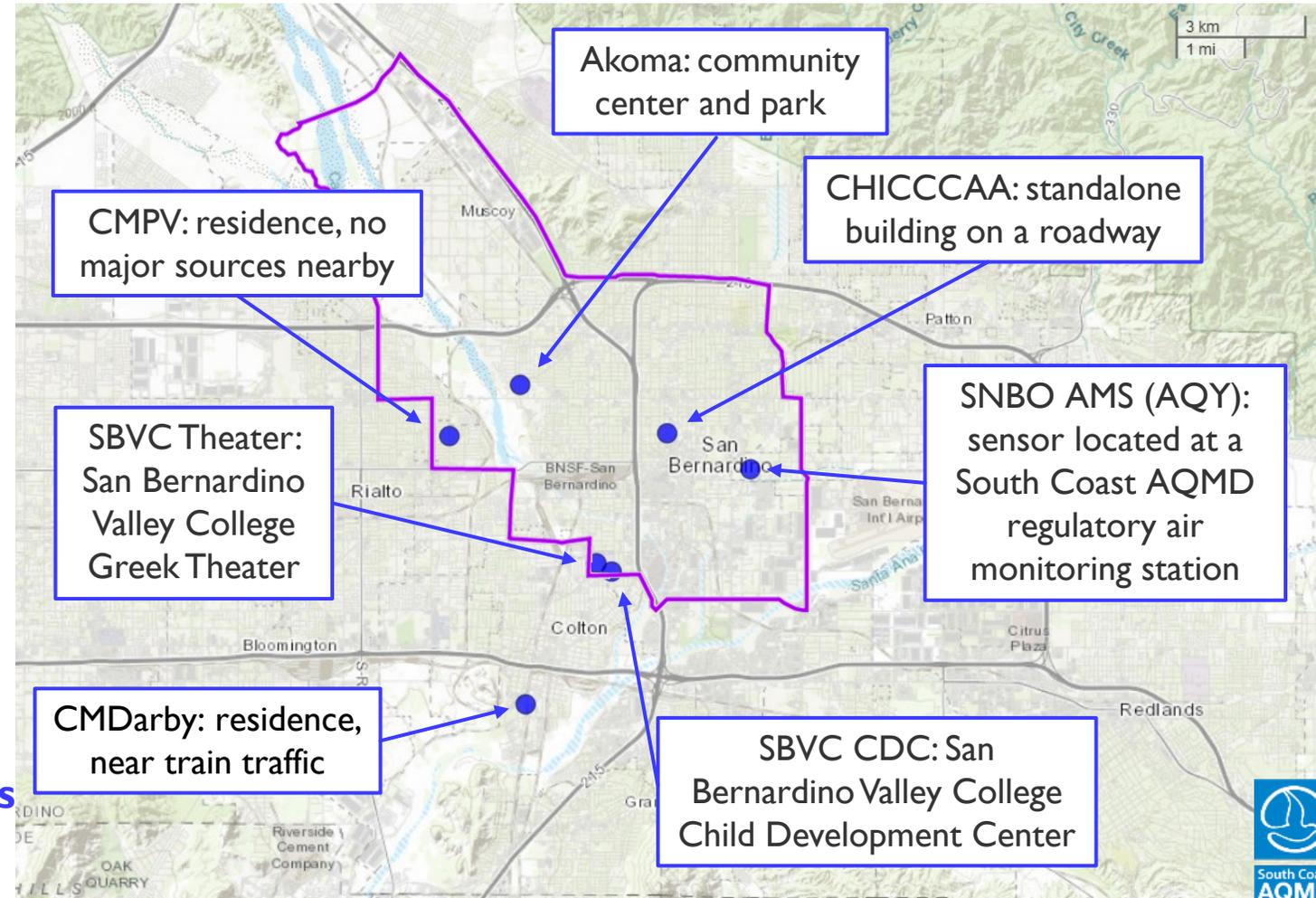
LOCAL SENSOR NETWORK & DATA DASHBOARD

Vasileios Papapostolou, ScD
Program Supervisor

AEROQUAL AQY SENSOR NETWORK

COLLABORATION BETWEEN THE SBM CSC AND THE MONITORING TEAM AT SOUTH COAST AQMD

- Network provides additional *local* data
- Aeroqual AQY measures:
 - PM_{2.5} & PM₁₀
 - O₃ & NO₂
 - Temperature
 - Humidity
- A network management tool is used to track sensor health and conduct maintenance as needed to ensure proper function of sensors



AB 617 SBM Community Boundary

All sites selected by Community Members

Most Sensors Installed by Community Members

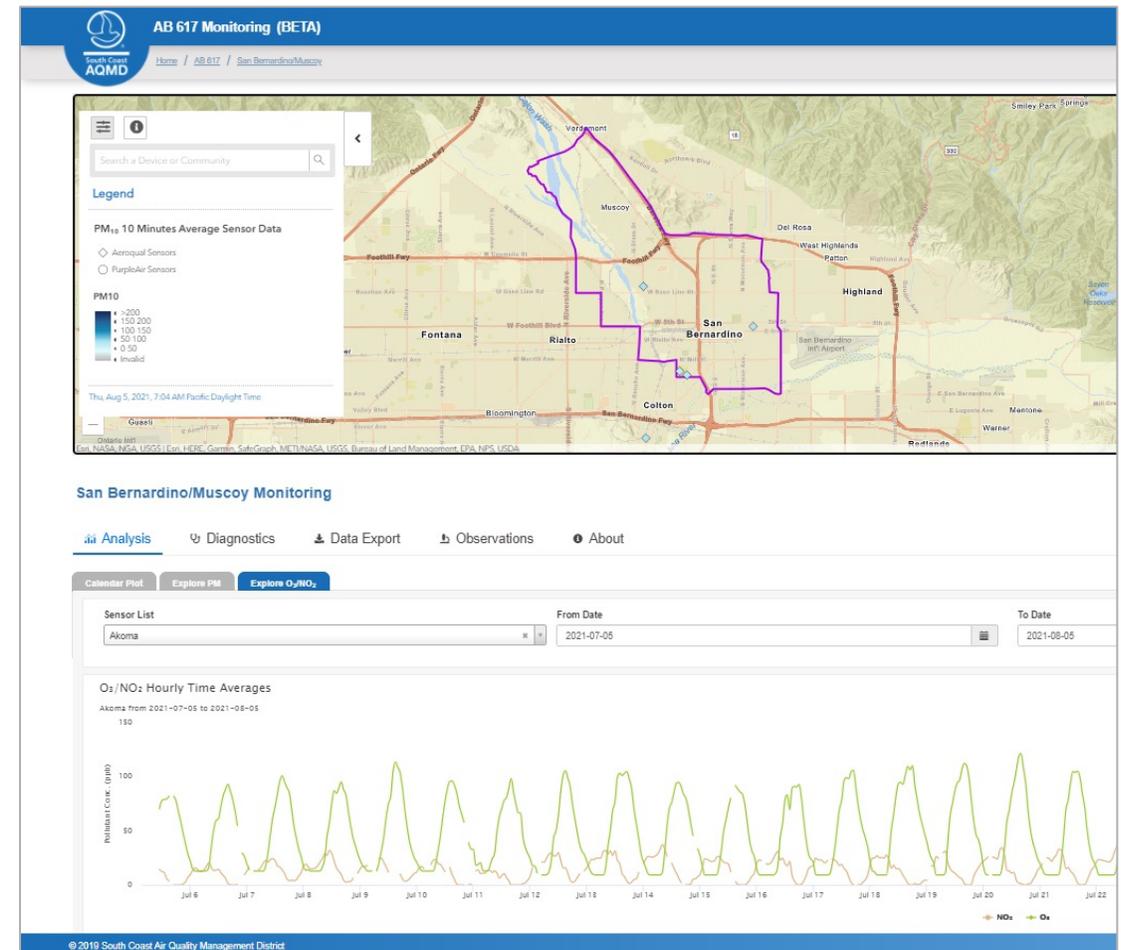
Additional sites to be added (e.g., Mescal)

ACCESSING AND EXPLORING THE SENSOR DATA

- A Dashboard has been created to support data access and analysis for this Aeroqual AQY sensor network
- Tool is in beta (or testing) phase
- Using this tool, you can:
 - View current data on a map
 - View current data in plots
 - View historical data in plots
 - Download data

<https://aqportal.aqmd.gov/public/index>

Available on 11/17



(screenshot of San Bernardino/Muscoy Dashboard)

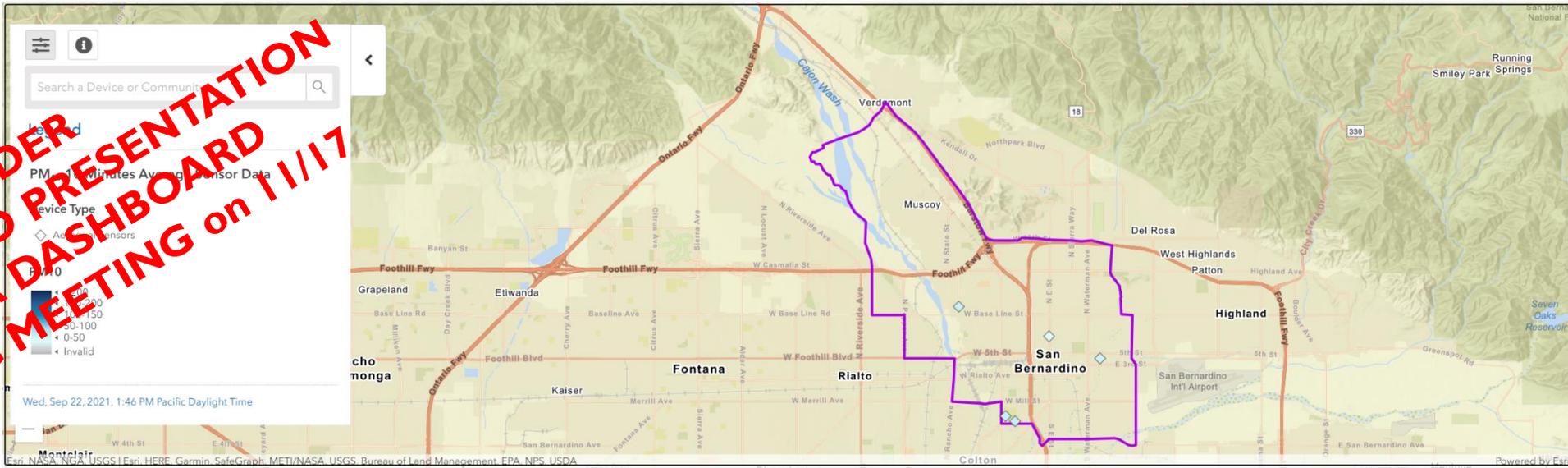
AQY DATA DASHBOARD

BETA version for review b/w 11/17 - 12/1

South Coast AQMD AB 617 Monitoring (BETA) Home Programs

Home / AB 617 / San Bernardino/Muscoy

Technology 1 Device 1 Location Pollutant Time Averages



PLACEHOLDER FOR DEMO PRESENTATION OF DATA DASHBOARD AT CSC MEETING on 11/17

San Bernardino/Muscoy Monitoring

SUPPORTING RESOURCES TO HELP USE AND REVIEW THE DASHBOARD

- **Video Tutorials:** four brief tutorials (1) introducing the tool, (2) explaining the map, (3) describing the data analysis tools, and (4) highlighting other features available, can be found at the link below under the section “Data Dashboard Viewing”
 - <https://www.aqmd.gov/aq-spec/special-projects/aeroqual-aqy-deployments>
- **User Guide:** includes background information, “how to” for all plots and features, and questions to guide your analysis
 - [https://www.aqmd.gov/docs/default-source/aq-spec/research-projects/aeroqual-aqy-network/aqy-dashboard-user-guide-\(v8\).pdf?sfvrsn=8](https://www.aqmd.gov/docs/default-source/aq-spec/research-projects/aeroqual-aqy-network/aqy-dashboard-user-guide-(v8).pdf?sfvrsn=8)
- **Additional Information** on the Aeroqual sensor networks
 - <https://www.aqmd.gov/aq-spec/special-projects/aeroqual-aqy-deployments>
- **User Survey:** please use this to share feedback (until 12/1) on the data dashboard which may then be optimized, finalized and released
 - <https://forms.office.com/g/tHShz9w6ZG>

WANT TO LEARN MORE?

- Please get in touch

Contact:
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909-396-2254



ACLIMA UPDATE

Aclima Update

FUTURE AGENDA ITEMS & CSC MEMBER UPDATES

Future Agenda Items & CSC Member Updates

PUBLIC COMMENT / COMENTARIO PÚBLICO

AB617comments@aqmd.gov

THANK YOU / GRACIAS

**For more information, questions, or suggestions after this meeting:
Para más información, preguntas o sugerencias después de esta reunión:**

Daniel Wong

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Legislative, Public Affairs & Media
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