

AB 617: SAN BERNARDINO / MUSCOY

CO-HOSTS:
ANGIE BALDERAS
DANIEL WONG

1st Quarter - 2022

**RESIDENT TESTIMONIAL /
TESTIMONIO DE RESIDENTE**

**Tribute to Mathew Taylor
Homenaje a Mathew Taylor**

CERP & CAMP IMPLEMENTATION

UPDATE – 1ST QUARTER 2022

San Bernardino, Muscoy
February 10, 2022

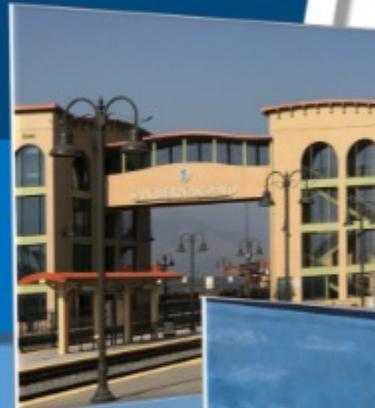
ASSEMBLY BILL (AB) 617
COMMUNITY AIR INITIATIVES

COMMUNITY EMISSIONS REDUCTION PLAN

SAN BERNARDINO,
MUSCOY

JULY 2019 DRAFT

SOUTH COAST
AIR QUALITY MANAGEMENT DISTRICT



COMMUNITY EMISSIONS REDUCTION PLAN (CERP) IMPLEMENTATION / IMPLEMENTACIÓN DEL PLAN COMUNITARIO DE REDUCCIÓN DE EMISIONES (CERP)

- **Automated License Plate Reader (ALPR) Update /**
Actualización de Lector de Matrículas Automatizado (ALPR)
- **Idling Enforcement Update /**
Actualización de cumplimiento
(de motor en marcha con el vehículo parado)
- **Concrete Batch Plants Update /**
Actualización de las plantas de hormigón (concreto)
- **AB 617 Truck Incentives Workshop Update /**
Actualización del Taller de Incentivos para Camiones de AB 617

**COMMUNITY EMISSIONS REDUCTION PLAN (CERP) IMPLEMENTATION /
IMPLEMENTACIÓN DEL PLAN COMUNITARIO DE
REDUCCIÓN DE EMISIONES (CERP)**

**Automated License Plate Reader (ALPR) Update /
Actualización de Lector de Matrículas
Automatizado (ALPR)**

Automated License Plate Recognition (ALPR) Pilot Study Update

February 2022

ALPR Pilot Study

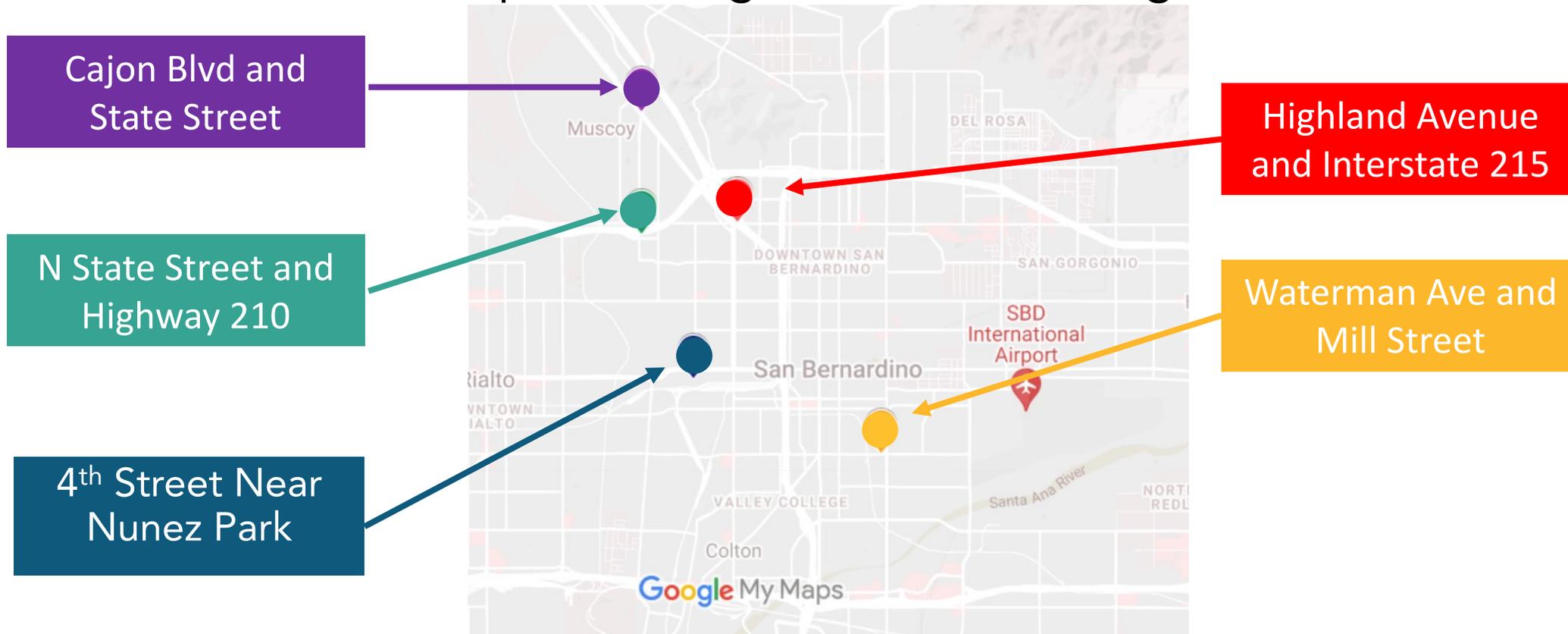
What is ALPR?

- Automated License Plate Recognition
- Collects images of passing vehicles
- Automated algorithm transcribes license plate images to a searchable text file



Monitoring Objective

- Collect heavy-duty vehicle information to help assess ability to achieve desired CERP actions prior to larger scale monitoring



Pilot ALPR Preliminary Results and Counts



Monitoring Highlights

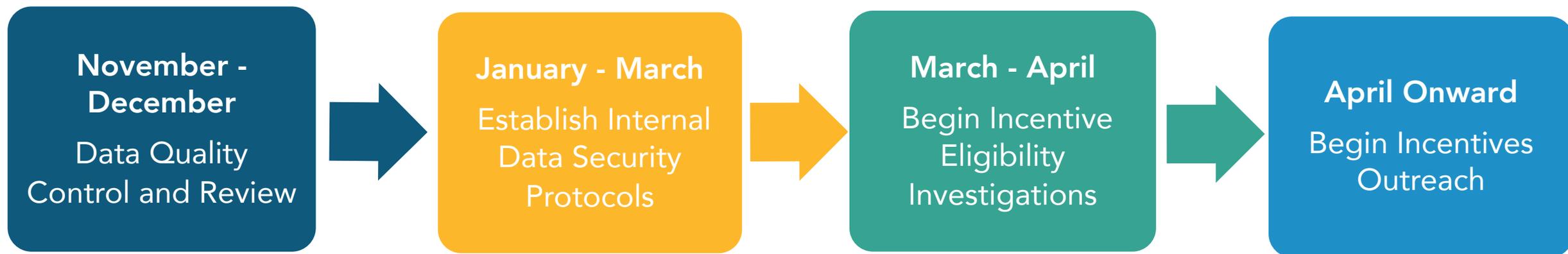
- 28 hours of monitoring over three days: October 19 – 21 2021
- Four different locations
- Vehicle counts below are from a single lane of traffic during monitoring

Date	Vehicle Count	Truck Count	Locations
October 19 th	300	246	4 th Street near Nunez Park
October 20 th	777	105	Waterman Ave and Mill Street N State Street at Highway 210
October 21 st	482	313	Cajon Blvd and State Street Highland Ave at Interstate 215 4 th Street Near Nunez Park
Totals:	1,559	664	

Current Status

- Completed quality control review of ALPR data
- CARB staff are currently working to:
 - Establish and verify internal data security protocols and sharing agreements
 - Determine eligibility of vehicles found in the community for incentive funds

Proposed Project Timeline



**COMMUNITY EMISSIONS REDUCTION PLAN (CERP) IMPLEMENTATION /
IMPLEMENTACIÓN DEL PLAN COMUNITARIO DE
REDUCCIÓN DE EMISIONES (CERP)**

**Idling Enforcement Update /
Actualización de cumplimiento
(de motor en marcha con el vehículo parado)**



Truck Idling Sweep Update

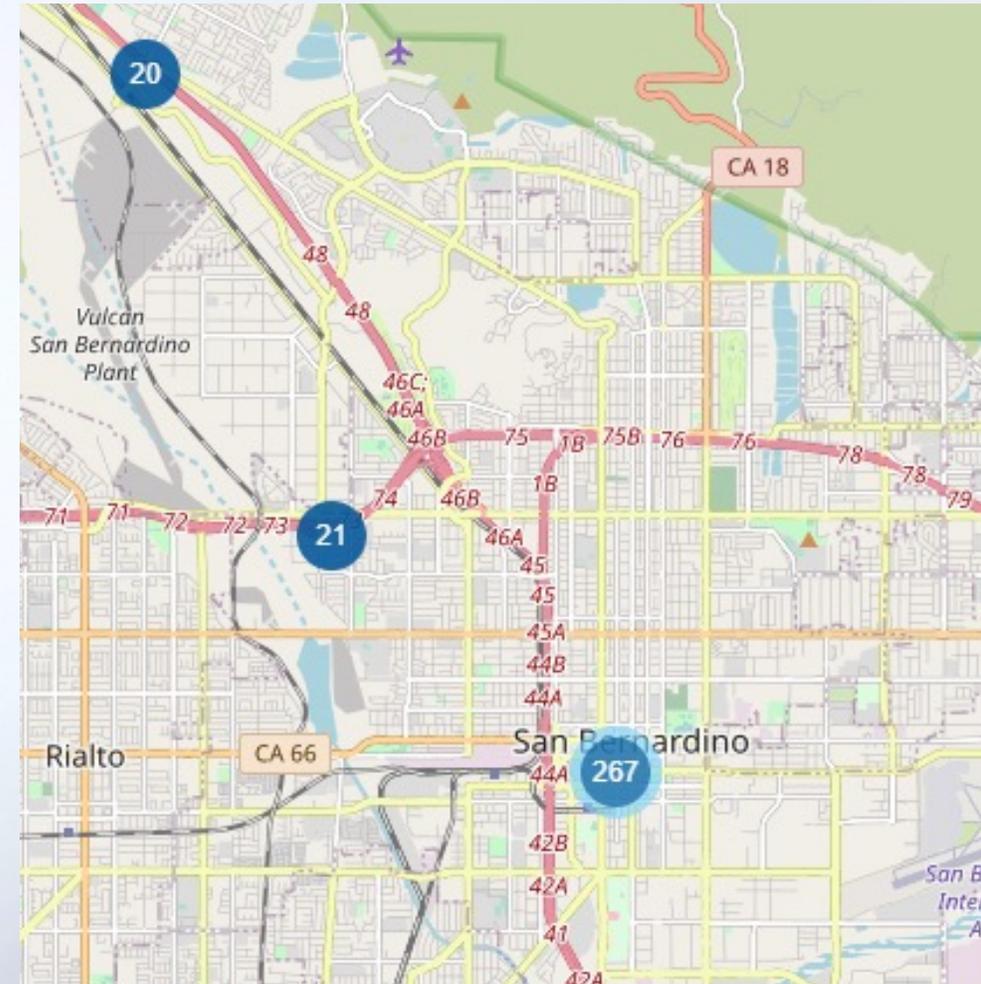
Helena Rhim (helena.rhim@arb.ca.gov)

February 10, 2022

CARB Idling Enforcement

Q1-Q3 2021 Idling Sweeps

- 288 idling inspections, 10 violations observed
- Field inspections still limited due to COVID-19 safety protocols
- Q4 2021 enforcement data under review
- CARB enforcement data: <https://webmaps.arb.ca.gov/edvs/>



South Coast AQMD Idling Enforcement

Q1-Q4 2021 Idling Sweeps

- 41 idling inspections, 0 violations observed
- Inspections conducted near Nunez Park, Omnitrans, Waterman Avenue, Ogden, and in Muscoy
- One idling sweep was part of an investigation due to a public complaint that was received



**COMMUNITY EMISSIONS REDUCTION PLAN (CERP) IMPLEMENTATION /
IMPLEMENTACIÓN DEL PLAN COMUNITARIO DE
REDUCCIÓN DE EMISIONES (CERP)**

**AB 617 Truck Incentives Workshop Update /
Actualización del Taller de Incentivos para
Camiones de AB 617**

**AB 617 TRUCK INCENTIVES WORKSHOP/
TALLER DE INCENTIVOS PARA CAMIONES DE AB 617**

Wednesday, March 30th (5-7pm)
Miércoles, marzo de 30 (5-7pm)

E-mail:

AB617TruckIncentives@aqmd.gov

**COMMUNITY EMISSIONS REDUCTION PLAN (CERP) IMPLEMENTATION /
IMPLEMENTACIÓN DEL PLAN COMUNITARIO DE
REDUCCIÓN DE EMISIONES (CERP)**

**Concrete Batch Plants Update /
Actualización de las plantas de hormigón
(concreto)**

OFFICE OF COMPLIANCE & ENFORCEMENT



BATCH PLANTS

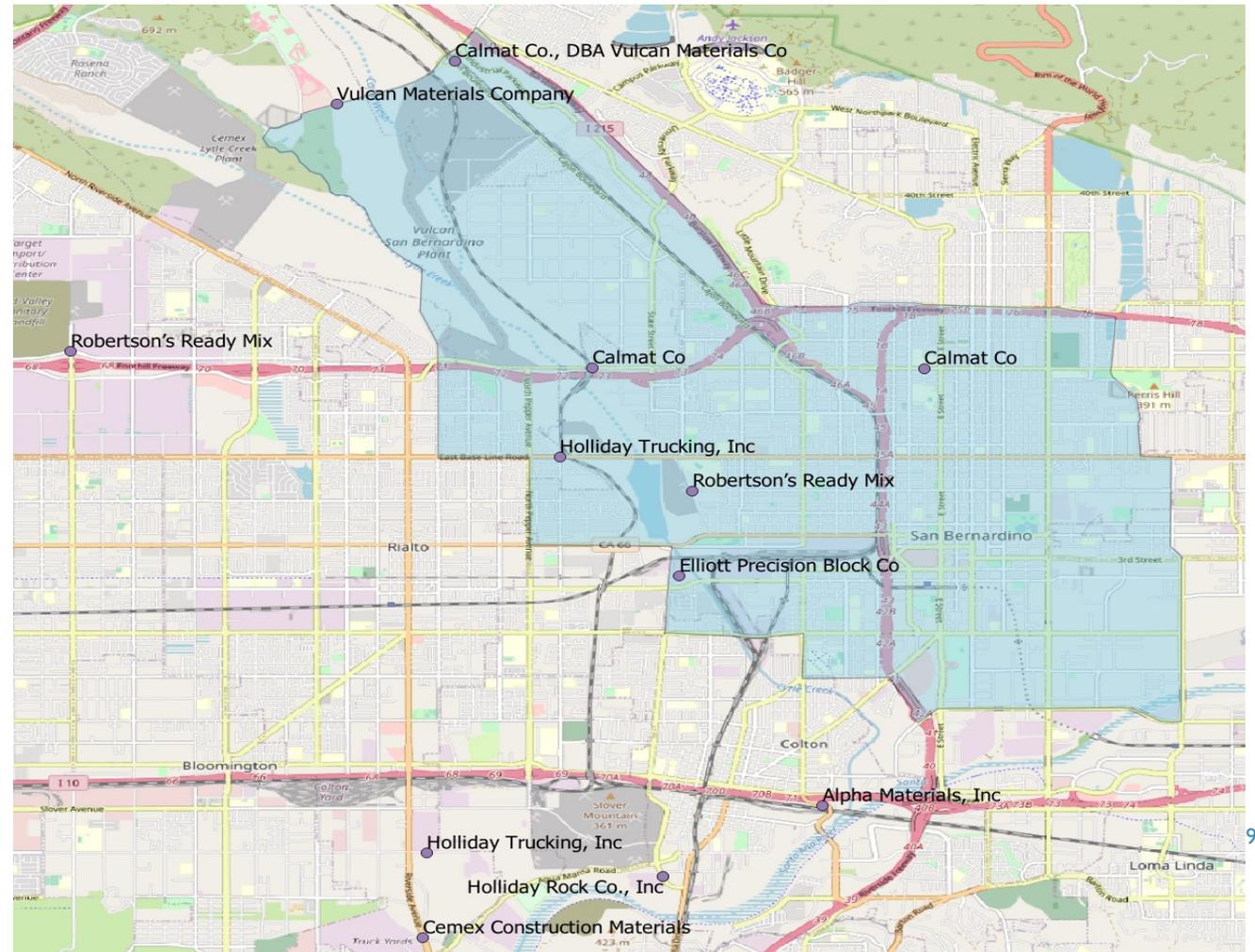
CONCRETE AND ASPHALT BATCH PLANTS

Batch plants take various components (air, water, and aggregate/asphalt/cement) and mix them to form concrete or asphalt



TYPES OF ACTIVE PERMITS

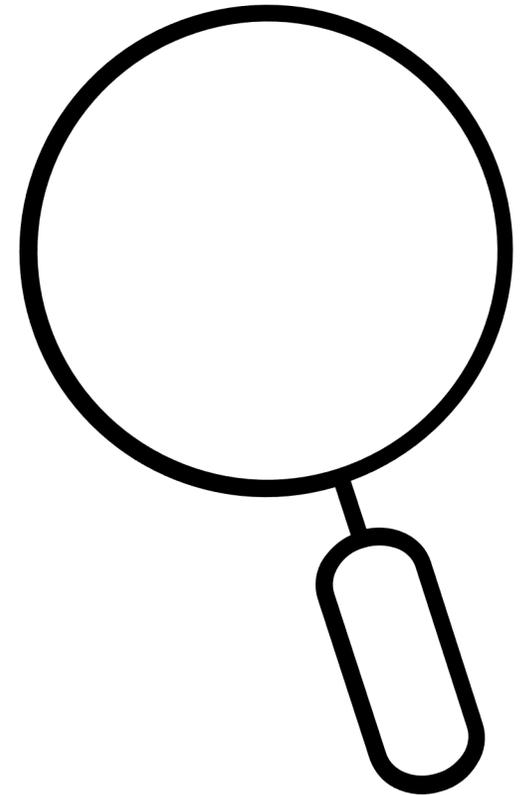
- Batching Equipment
- Baghouses
- Storage Silos
- Crushing Equipment



INSPECTIONS



- In 2021 and 2022, inspected all the Cement and Asphalt Plants in and around SBM - 13 facilities total
- Resulted in the issuance of four Notices to Comply
 - Three for requiring facilities to provide operating records
 - One for a minor correction on a gasoline storage and dispensing tank (replacement of tube cap gaskets)



INSPECTIONS SUMMARY WITHIN SBM

ID	Name	Last Inspection Date	Disposition
15018	Elliott Precision Block Co	2/26/2021	No Violations Observed
18323	Holliday Trucking, Inc	2/3/2021	No Violations Observed
34281	Calmat Co	2/9/2021	No Violations Observed
41580	Holliday Rock Co., Inc	1/6/2022	Notice to Comply
108457	Calmat Co	2/9/2021	No Violations Observed
120166	Robertson's Ready Mix	10/8/2021	No Violations Observed
147221	Robertson's Ready Mix	10/7/2021	No Violations Observed

AIR MONITORING ACTIVITIES & RESULTS

- As part of the CAMP implementation, South Coast AQMD conducted air monitoring near/around multiple cement batch plants. Monitoring included:
 - Mobile surveys to measure dust levels
 - Sensors measurements upwind/downwind of each facility
 - Sample collection and chemical analysis for air toxic assessment
- Information about the methods used and a result summary were presented in previous CSC meetings:
 - CSC Meeting #10 (Oct. 17, 2019)
 - CSC Meeting #9 (Aug. 15, 2019)
- All results have been included in the progress report: <http://www.aqmd.gov/ab617/monitoring/sbm>

If you have any questions and/or comments, please contact:
Payam Pakbin ppakbin@aqmd.gov

HOW TO REPORT AN AIR QUALITY COMPLAINT

1-800-CUT-SMOG

HOW TO REPORT AN AIR QUALITY COMPLAINT



There are 3 ways to file:

-  Call 1-800-CUT-SMOG (1-800-288-7664)
-  Visit www.AQMD.gov/Complaints
-  Download the South Coast AQMD app and select "1-800-CUT-SMOG"

Please have ready:

-  Date and time of the air quality event
-  Type of air quality event (odors, dust, asbestos, smoke, etc.)
-  Odor description (gas, chemical, rotten eggs or other familiar odor)
-  Address or location of suspected source



**COMMUNITY AIR MONITORING PLAN (CAMP) IMPLEMENTATION /
IMPLEMENTACIÓN DEL PLAN COMUNITARIOS DE MONITOREO DEL AIRE (CAMP)**

**Community Air Monitoring Plan (CAMP) Implementation /
Implementación del Plan Comunitarios de Monitoreo del Aire
(CAMP)**



San Bernardino-Muscoy Update

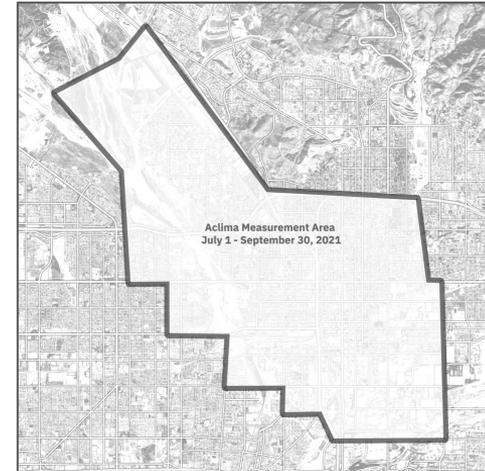
February 10, 2022

Mobile Monitoring In San Bernardino-Muscoy

With support from the South Coast AQMD, Aclima conducted three months of block-by-block air quality measurements **July 1 – September 30, 2021**. Our analysis of this baseline dataset is now complete.

Pollutants Measured and Analyzed:

- Fine particulate matter (PM_{2.5})
- Black Carbon (BC)
- Nitrogen Dioxide (NO₂)
- Ozone (O₃)
- Volatile Organic Compounds (VOCs)
- Carbon Dioxide (CO₂)
- Carbon Monoxide (CO)
- Nitric Oxide (NO)
- Methane (CH₄)
- Ethane (C₂H₆)



Community Air Quality Report supports CERP implementation

Aclima connects mobile air quality data to the needs of the community through extensive research and numerous interviews with Community Steering Committee members, community and environmental justice groups, air regulators, and residents.

Hyperlocal monitoring serves the Community Emissions Reductions Plan (CERP) and Community Steering Committee with the ability to **assess, prioritize, and evaluate community air pollution concerns and interventions at the block-to-block level.**

In this report, we use Action Indicators to visualize specific areas of concern defined in the CERP and during Steering Committee meetings: diesel emissions, particulate matter, traffic impacts, air quality near schools, ambient methane levels, and more.

When paired with South Coast AQMD and community-identified concerns, our **Action Indicators facilitate improved prioritization and evaluation of emission reductions strategies** to improve air quality for everyone in the San Bernardino-Muscoy area.



CERP Action Opportunities → Acima Action Indicators → Prioritized Areas

What actions are in this Plan?

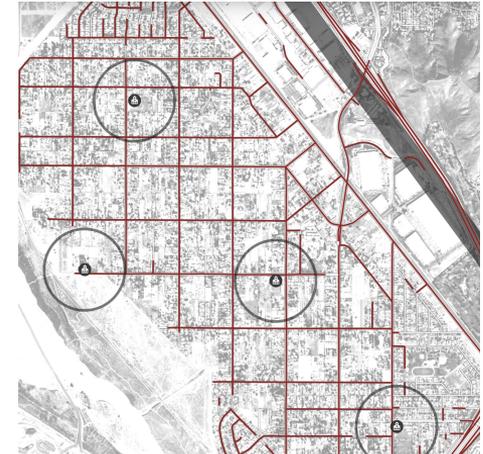
<p>Neighborhood Truck Traffic</p> <ul style="list-style-type: none"> Identify truck routes and truck enforcement in priority areas Work with City and County to establish truck routes and parking areas Incentive funds for cleaner trucks Use data and new technology to help target enforcement Develop Indirect Source Rules, Strong Truck Rule, Advanced Clean Truck Rule, and Heavy-Duty Low NOx Rule 		<p>Warehouses</p> <ul style="list-style-type: none"> Develop Indirect Source Rule for Warehouses Enhance land use policies to reduce residential exposure to truck emissions from warehouses (work with City and County) Work with local utilities to encourage zero-emission infrastructure
<p>OmniTrans Bus Yard</p> <ul style="list-style-type: none"> As monitoring near the facility to identify potential emission sources Support deployment of zero-emission buses and infrastructure 		<p>Railyards</p> <ul style="list-style-type: none"> Develop Indirect Source Rule for Railyards, Orange Truck Rule, TRU Regulation, DIE Rule Work with CARG to consider new requirements on locomotives Work with BNSF to replace diesel equipment with cleaner technologies Work with local utilities to encourage zero-emission infrastructure
<p>Concrete Batch, Asphalt Rock, Aggregate Plants</p> <ul style="list-style-type: none"> Outreach to operators on best practices and rule requirements Focus on monitoring and inspections to identify potential emissions or violations 		<p>Schools, Childcare Centers and Community Centers</p> <ul style="list-style-type: none"> Clean Air Raiser Education (CARE) and My Air Quality Matters (MAMM) programs at local schools Outreach to schools (partner with the 28 County Public Health CALAIR, CHIRCAL, Safe Routes to School) Business management program (partner with Arrowhead Regional Medical Center) Air filtration systems Increase green space and plant trees

More details provided in CERP documents on this webpage: www.sajpd.gov/the/about/initiatives/community-eforts/air/environmental-justice/label17-134.htm

Action opportunities outlined in the CERP address community concerns



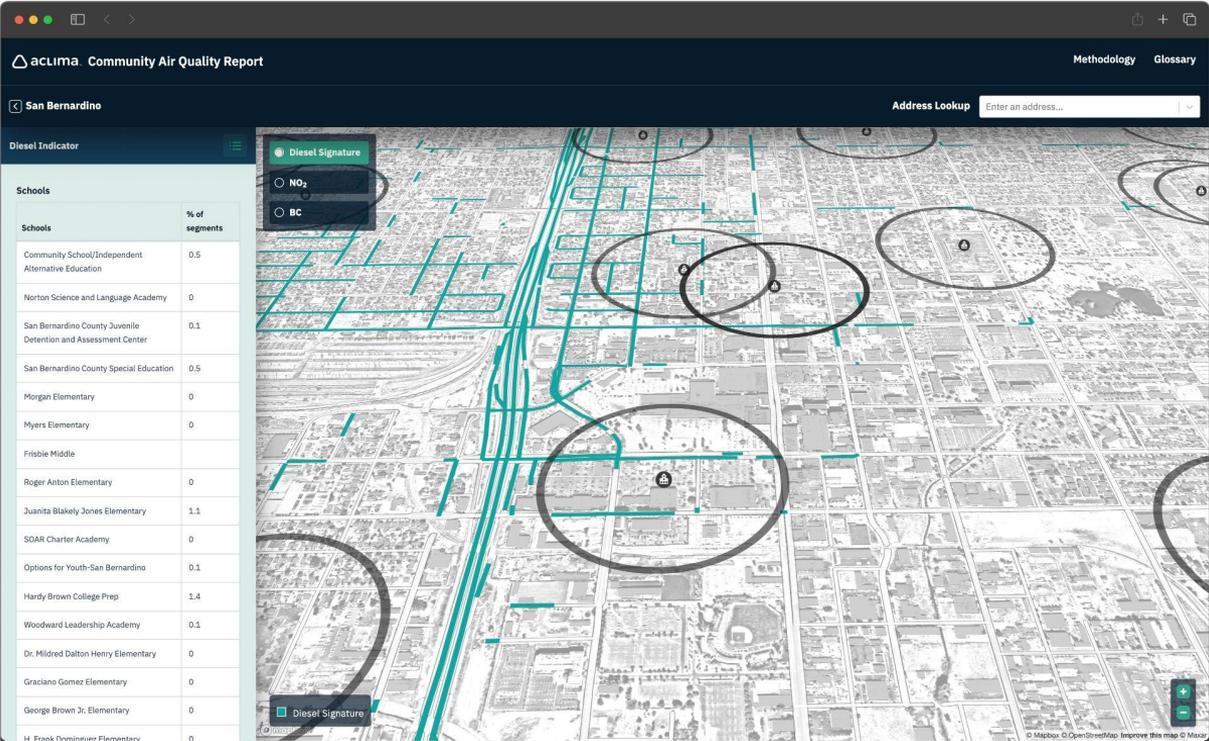
Action Indicators distill hyperlocal data into actionable areas of focus.



Prioritized areas for further investigation and intervention evaluation

Action Indicators

Diesel Indicator Near Schools



Address Lookup

Generate a detailed air quality report for any address within this measurement area.

The screenshot displays the Aclima Community Air Quality Report interface. The main content area shows a detailed report for the address '34.097466,-117.303978' (OMNI TRANS). The report includes a map view with 'Nearby Segments' and 'Street View' options. A sidebar on the left provides context about the data and mobile mapping. A right-hand panel displays a list of air quality metrics with a color-coded scale for Fine Particulate Matter (PM_{2.5}).

aclima. Community Air Quality Report Methodology Glossary

San Bernardino Address Lookup

Area Overview

The world's most detailed air quality maps, now available in your neighborhood.

Decisions are only as good as the intelligence behind them. Our high-resolution measurements provide the data required to target emissions reductions and reduce your risk from air pollution. Aclima deployed its fleet of vehicles driven by local community members to measure air pollution on each block repeatedly from July through September, 2021. Aclima combined measurements to calculate average pollution levels at any address. In San Bernardino and Muscoy, we looked at carbon monoxide (CO), nitrogen dioxide (NO₂), ozone (O₃), fine particulate matter (PM_{2.5}), and black carbon (BC) levels. We analyzed over 15 million data points related to these five pollutants and discovered areas with elevated concentrations of unhealthy air pollutants.

Mobile mapping: average air pollution concentrations block by block.

High resolution measurements identify areas where elevated levels of harmful pollutants are typically present. Multiple measurements at each location over time leads to an understanding of typical air quality. Each block has been measured over 20 times, which has been proven to be representative of the persistent air quality at a given location during the measurement time frame. Mobile mapping is either continuous or performed on a quarterly or annual

OMNI TRANS
34.097466,-117.303978

Nearby Segments **Street View**

Nearby Emission Sources

Name	Distance	Category
WELCH'S OVERALL CLEANING CO INC	0.2 mi	Regulated Facility
SBCUSD, LYTLE CREEK ELEMENTARY	0.2 mi	Regulated Facility

Fine Particulate Matter (PM_{2.5}) **11.8 µg/m³**

<10 >13.5

Nitrogen Dioxide (NO₂) **16.0 ppb**

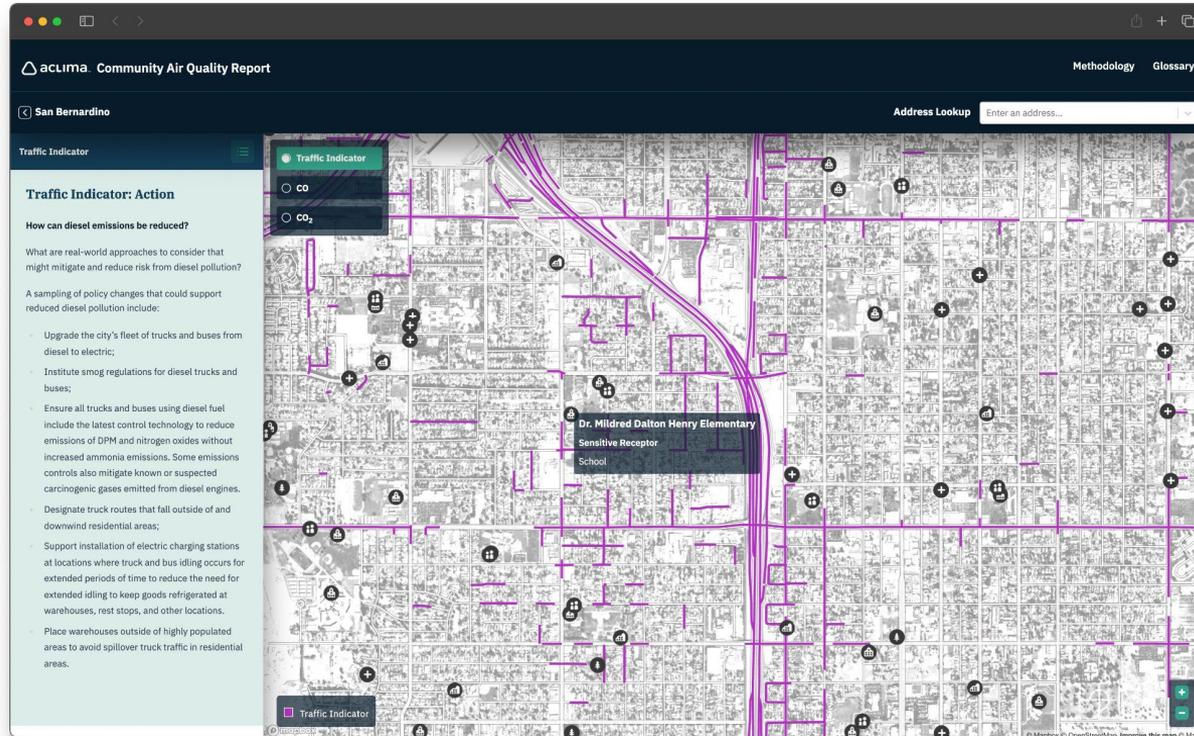
Black Carbon **1.9 µg/m³**

Carbon Monoxide (CO) **0.5 ppm**

Ozone (O₃) **32.9 ppb**

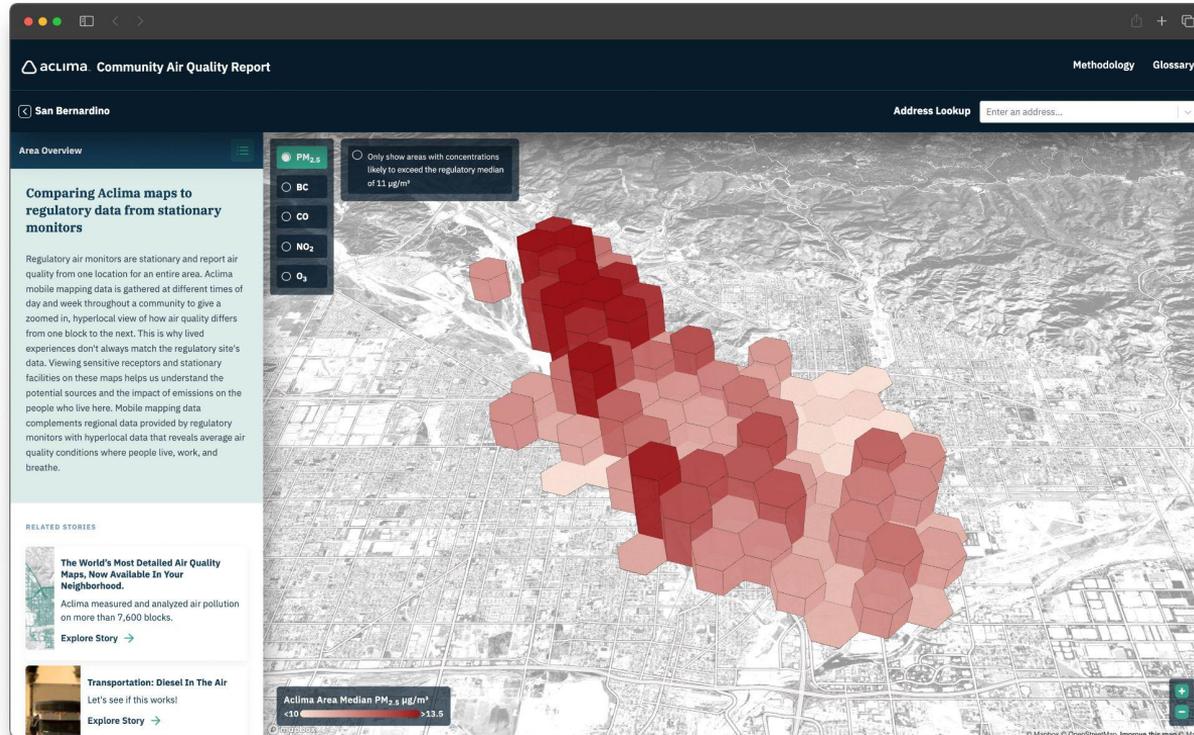
Sensitive Sites

Visualize schools, healthcare facilities (hospitals and other), early learning and care sites, community centers, libraries, public housing projects, parks, and more in conjunction with each Action Indicator.

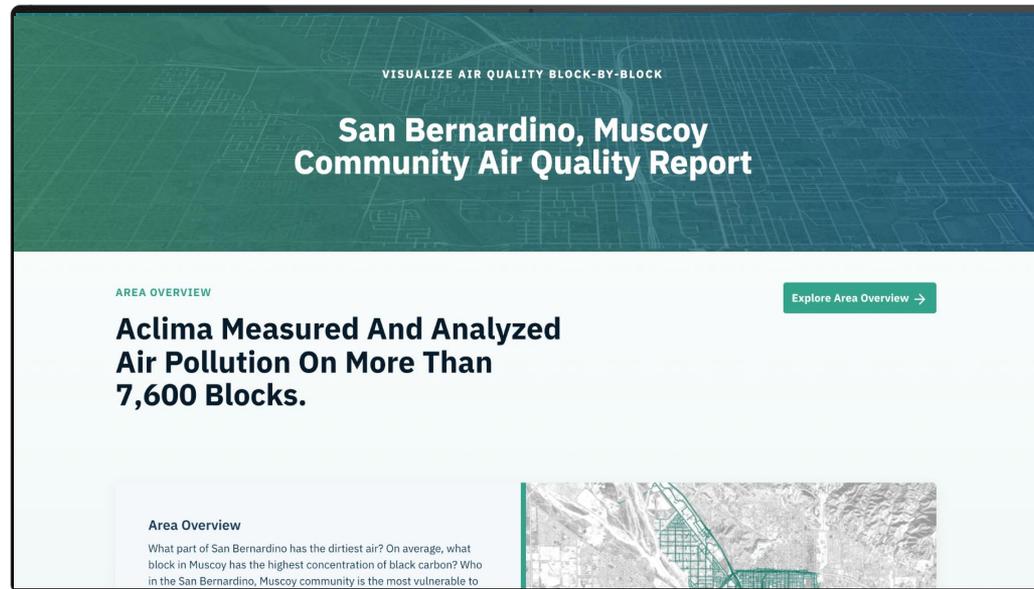


Regulatory Comparison

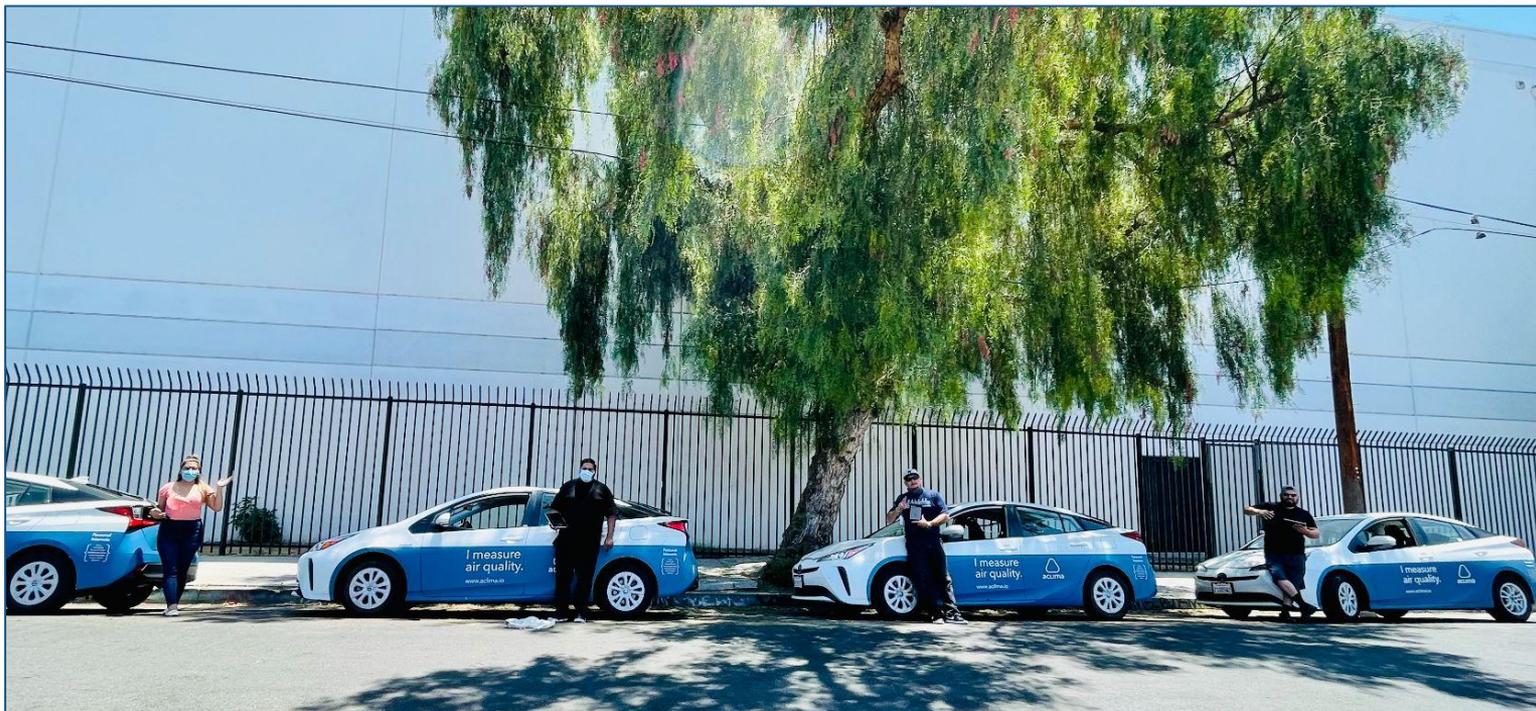
Mobile mapping data complements regional data provided by regulatory monitors with hyperlocal data that reveals average air quality conditions where people live, work, and breathe.



Available online February 10, 2022:
<http://community-air-quality.aclima.io/california/sbm>



Gratitude to our amazing SBM and ELABHWC Data Collection Team!



An aerial photograph of an industrial or commercial district, overlaid with a semi-transparent blue filter. The scene shows a street with several vehicles, including a white pickup truck, a dark sedan, and a flatbed truck. Buildings with corrugated metal roofs and signs for 'CRAIG & GREEN' and 'QUALITY RENTALS' are visible. In the background, there are more industrial structures and a large circular facility, possibly a water treatment plant. The overall tone is professional and clean.

THANK YOU.

**FUTURE AGENDA ITEMS & CSC MEMBER UPDATES /
TEMAS PARA LA PRÓXIMA REUNIÓN Y ACTUALIZACIONES DE MIEMBROS DEL CSC**

**Future Agenda Items & CSC Member Updates /
Temas para la próxima reunión y
Actualizaciones de miembros del CSC**

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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South Coast Air Quality Management District

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