



Truck Traffic, Railyards & Warehouses Monitoring

Monitoring & Analysis Division

Truck traffic, railyards, and warehouses are important sources of particulate matter (PM), black carbon (BC), ultrafine particles (UFP), and nitrogen dioxide (NO₂) and were identified as an air quality priority in the East Los Angeles, Boyle Heights, West Commerce (ELABHWC).

Working very closely with the Community Steering Committee (CSC), South Coast AQMD staff developed the following Community Emissions Reduction Plan (CERP) and Community Monitoring Plan (CAMP) strategy to address this air quality priority and to support efforts that reduce exposure to air pollution.

Stationary Monitoring

- Stationary air measurements of diesel exhaust markers (e.g., PM, BC, UFP, and NO₂) was conducted at monitoring stations in ELABHWC community
- Data provides near real-time information about pollution levels in the community and are used to track concentration trends



Mobile Monitoring

- South Coast AQMD and its contractor (Aclima) conducted comprehensive mobile measurements of diesel exhaust markers (e.g., PM, BC, UFP, and NO₂) within the ELABHWC community
- Additional mobile monitoring surveys of non-exhaust traffic markers (metals, including Ba, Cu, Zn, Fe) was conducted using South Coast AQMD's newly developed multi-metal mobile platform (MMMP)
- Data was used to identify areas with persistent elevated levels of diesel exhaust markers and non-exhaust traffic markers



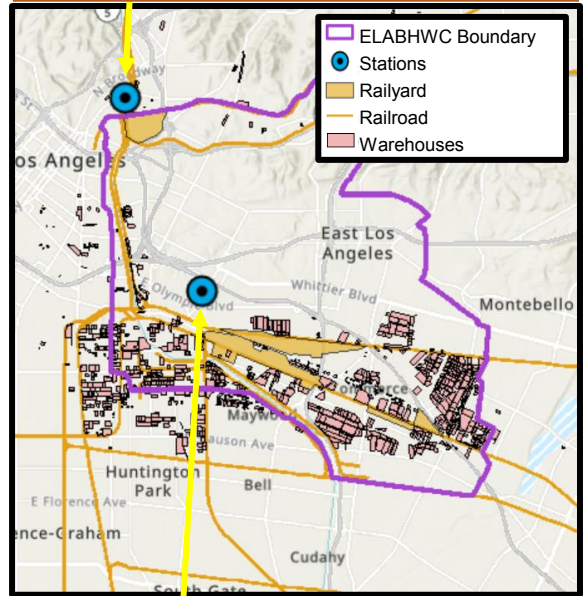
Inform Exposure Reduction Efforts

- In ELABHWC, residences that fall within 500 ft of the railways and freeways, as well as those that fell within areas where BC concentration was elevated were prioritized for residential air filtration project



Central Los Angeles Air Monitoring Station (ELABHWC)

Continuous measurements of PM_{2.5} and PM₁₀, NO₂, Black Carbon, and UFP June 2019 to December 2023



Mobile Monitoring



Diesel PM Mobile Platform

- July 2019 through December 2020
- 10 survey days



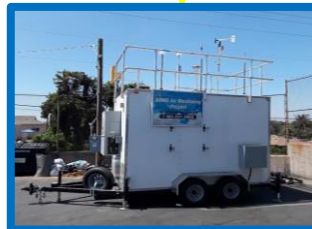
Multi-Metals Mobile Platform

- June 2022 through September 2023
- 52 survey days



Aclima Mobile Platform

- July 1 through September 30, 2021
- Surveys performed 24-7 throughout the entire community



Resurrection Church Air Monitoring Station (ELABHWC)

Continuous measurements of PM_{2.5}, NO₂, Black Carbon, and UFP June 2019 to Dec 2023