

Interactive Map for AB-617 Richmond/San Pablo

This document describes data layers shown on the interactive map for the AB 617 Richmond-San Pablo area. The map is designed to help visualize current air quality monitoring locations, sources of air pollution, and health burden data, and aims to support the steering committee as it develops a community air monitoring plan. The map can be modified or updated with additional data layers as needed.

Interactive map link: <https://bit.ly/2Ww1IVC>

Description of Map Layers

Health

Three health indicators from [CalEnviroScreen 3.0](#) are included:

- Asthma
- Cardiovascular disease
- Low birth-weight infants

The health data are mapped by census tract, and only tracts with health indicator percentiles > 50% are shown. The percentiles reflect data from census tracts across California; for example, a census tract at the 75th percentile for asthma has worse asthma rates than 75% of all census tracts in California.

Sensitive Receptors

Locations of child care centers, senior care centers, schools, and hospitals/clinics are shown.

Regional PM_{2.5} and Air Toxics Modeling

EPA's Community Multiscale Air Quality (CMAQ) model was run at 1-km resolution over the Bay Area for the year 2016. Model output shown on the map include:

- Annual average PM_{2.5} concentrations
- Cancer risk (per million people) from air toxics

Facilities and Emissions

Facilities requiring air quality permits from the Air District are shown on the map in two layers:

- Permitted Facilities (high emitters) shows the locations of all permitted facilities, highlighting those with the greatest PM_{2.5} emissions and/or greatest cancer risk due to air toxics
- Permitted Facilities (by type) shows the locations of all permitted facilities broken into several categories, such as refineries and petrochemical storage, gas stations, auto body shops, shipping and storage, and waste management and scrapyards.

Air Monitoring

Locations of existing air monitoring in the Richmond-San Pablo area are shown, including Air District regulatory monitoring, Chevron and Chevron-affiliated monitoring, and the BEACO₂N project. Information for other air monitoring networks can be added as they become available.

Focus Areas

Potential focus areas identified during mapping activities at previous steering committee meetings are highlighted on the map. Focus areas shown may be geographically based (such as the Richmond harbor) or source/source type based (such as mobile sources/traffic).