California Environmental Protection Agency
Air Resources Board

California Ambient Dioxin Air Monitoring Program
- Site Summary -

Richmond

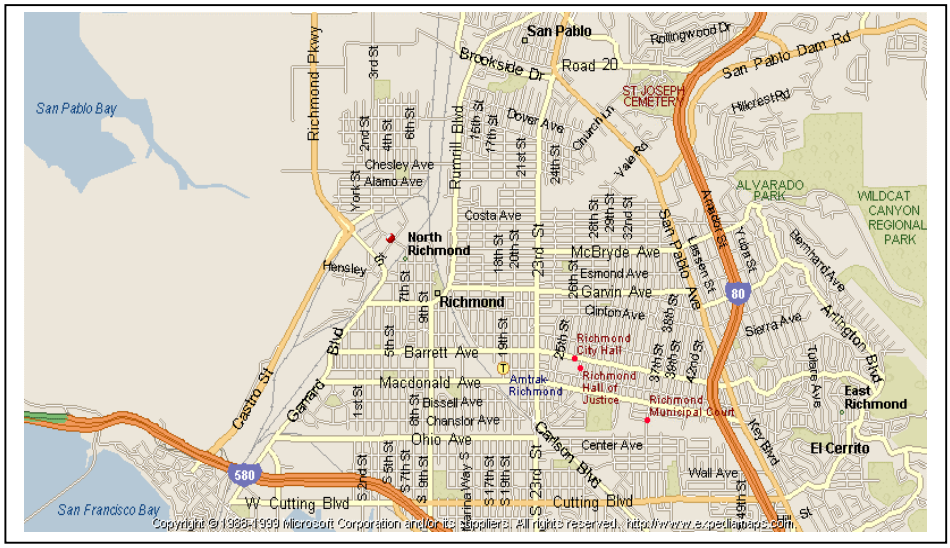
This page updated on November 4, 2003

Site Location:
Monitoring for the California Ambient Dioxin Air Monitoring Program (CADAMP) will be conducted at 1065 7th Street in Richmond. This site is part of the Bay Area Air Quality Management District's (BAAQMD) monitoring network for toxic pollutants.

Site Approval:
With the BAAQMD's approval, the CADAMP dioxin sampler was placed at the BAAQMD's air monitoring site in Richmond.

Monitoring Start Date:
Collection of samples for ambient air quality analysis for CADAMP at Richmond began in December 2002.

Reason for Choosing Richmond:
Richmond is located 16 miles northeast of San Francisco, directly across the San Francisco Bay with a population of approximately 100,000. Richmond was chosen as one of the ten sites for dioxin monitoring because it is a central transportation hub in the Bay Area. Richmond has two



Interstate freeways (80 and 580), two railroads, a deepwater shipping port, which is the third largest in annual tonnage in California, several local bus lines, Bay Area-wide rapid transit and USA-wide passenger rail service from the BART/AMTRAK station located in the heart of downtown. There are also two international airports within 30 miles of Richmond. Richmond is situated near major metropolitan cities and new growth areas.

Chevron USA (oil refining) and Zeneca (chemical manufacturer) are major manufacturers in the area.

Emission Sources:
Emission sources in the vicinity include multiple freeways, heavy surface vehicular traffic, multiple mobile sources (bus, train, ship), and wood burning fireplaces.

Monitoring Parameters:
Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans, congener specific PCBs, and PBDEs. A total of 75 compounds will be evaluated each month.

Monitoring Schedule:
The dioxin sampler will be run for 28 consecutive days each month for the duration of the project. Sampling media consists of quartz fiber filters, polyurethane foam (PUF), and XAD resin. Filters will be collected and replaced every 6^{th} day. PUF/XAD cartridges will be collected on the 28^{th} day. Filters, PUF, and XAD will be composited for a single monthly sample analysis.

Anticipated End Date:
The ARB anticipates that CADAMP air monitoring will end in 2004.

Agencies/Resources/Roles:
The ARB is the lead agency for carrying out the California Ambient Dioxin Air Monitoring Program and has overall responsibility for the study. The BAAQMD provided assistance in selecting the Richmond station for dioxin sampling and will perform all CADAMP sample collection tasks. A laboratory under contract to the ARB will perform analysis of CADAMP samples. Staff in the ARB Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role in coordinating sampling efforts, tracking the project, validating the data, and conducting quality control and quality assurance activities. The ARB's Stationary Source Division (SSD) will evaluate ambient air concentrations to prioritize risk management strategies.

Connection to Other Air Monitoring Programs:
The BAAQMD is collecting samples routinely for air toxic measurements as part of their air toxic network at the Richmond site. Monitoring is currently being performed for SO2, H2S, and toxic organics.