

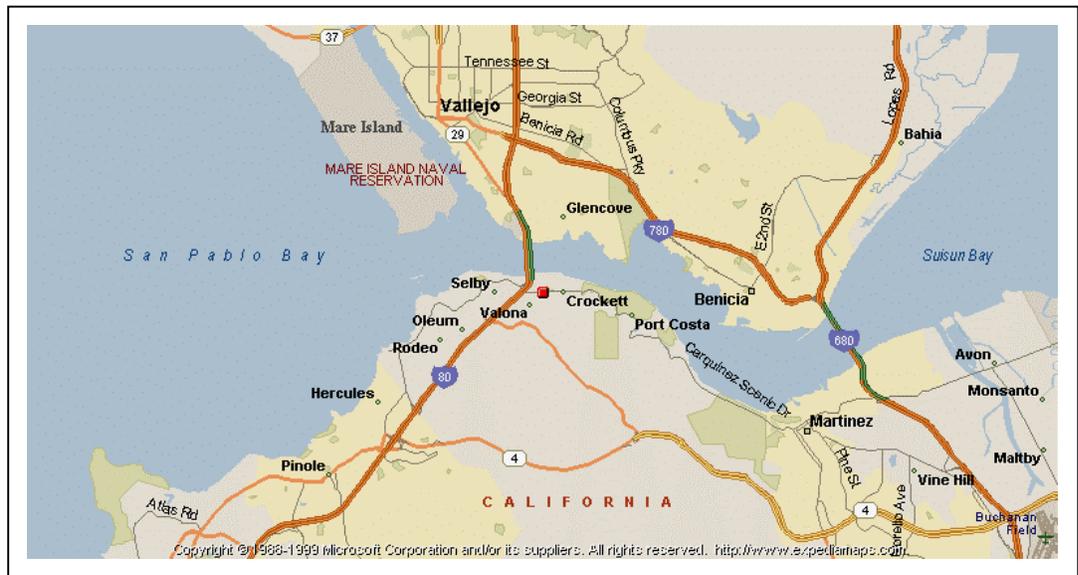
## California Ambient Dioxin Air Monitoring Program - Site Summary -

### Crockett

*This page updated on November 3, 2003*

**Site Location:**

John Swett High School in central Crockett is one of ten sites chosen for California Ambient Dioxin Air Monitoring Program (CADAMP). The city of Crockett is located in northern Contra Costa County where the Carquinez Bridge (Interstate 80) crosses the Carquinez Strait. The high school is located at 1098 Pomona Street.

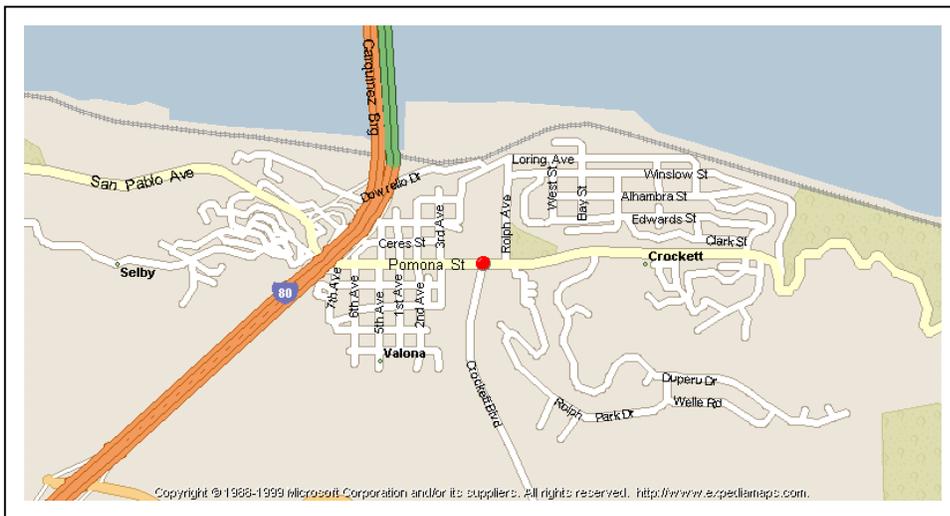


**Site Approval:**

Administrators of the John Swett Unified School District granted the Air Resources Board (ARB) permission to install an ambient air monitoring station on school property in October of 2000.

**Monitoring Start Date:**

Collection of samples for ambient air quality analysis for CADAMP began in December 2001.



**Reason for Choosing Crockett:**

Crockett was chosen because of its proximity to high-risk facilities, including potential sources of dioxin, and mobile source emissions. Oil refineries and major oil storage facilities are located in the nearby cities of Rodeo, Hercules, Martinez, and Benicia. Crockett is the location of a major food processing operation and a heavy-rail transfer facility. Crockett is home to two schools, John Swett High School and Carquinez Middle School. The student population of John Swett High School is approximately 650.

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Carquinez Middle School, located directly across Pomona Street from the high school, has a student population of 500. Both schools are located approximately one-half mile from Interstate 80, a major source of vehicle emissions. This location is a primary air transport pathway to other populated areas downwind and to tidelands, marshes, and Delta tributaries. Crockett is representative of medium and small towns typical of the northern tier of Contra Costa County.

***Emission Sources:***

Other sources of air pollution in the Crockett area include pollution from marine vessel activity and neighborhood scale sources such as service stations.

***Monitoring Parameters:***

Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans and congener specific PCBs. A total of 31 compounds will be measured 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<sup>th</sup> day. PUF/XAD cartridges will be collected on the 28<sup>th</sup> day. Filters, PUF, and XAD will be composited for a single monthly sample analysis.

***Anticipated End Date:***

The ARB anticipates that ambient dioxin air monitoring will end at John Swett High School in 2004.

***Agencies/Resources/Roles:***

The ARB is the lead agency for the California Ambient Dioxin Air Monitoring and has overall responsibility for the project. The Bay Area Air Quality Management District (BAAQMD) provided assistance in selecting the John Swett High School station and performs all CADAMP sample collection tasks. A laboratory under contract to the ARB will perform analysis of CADAMP samples collected at the site. Staff in the ARB's 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 Resources Board Programs:***

In addition to providing data necessary to determine ambient dioxin, furan and PCB concentrations for CADAMP, John Swett High School was the site of Children's Environmental Health Protection monitoring under Senate Bill 25 (SB25) from October 2001 through May 2003.

Data collected at the John Swett High School SB25 monitoring site are useful for evaluating the exposure of children to criteria pollutants, non-methane hydrocarbons (NMHC), and air toxics. Data collected at John Swett will be used to support the ARB's Community Health Program (<http://www.arb.ca.gov/ch/ch.htm>) and will provide information for the ARB's ongoing efforts to mitigate the health risks from diesel particulate (<http://www.arb.ca.gov/diesel/background.htm>). The Planning and Technical Support Division of ARB is coordinating the Community Health Program and will use the data generated at the school monitoring station to support other Community Health studies currently under development. Public outreach for the Community Health Program is being coordinated by the Planning and Technical Support Division.