

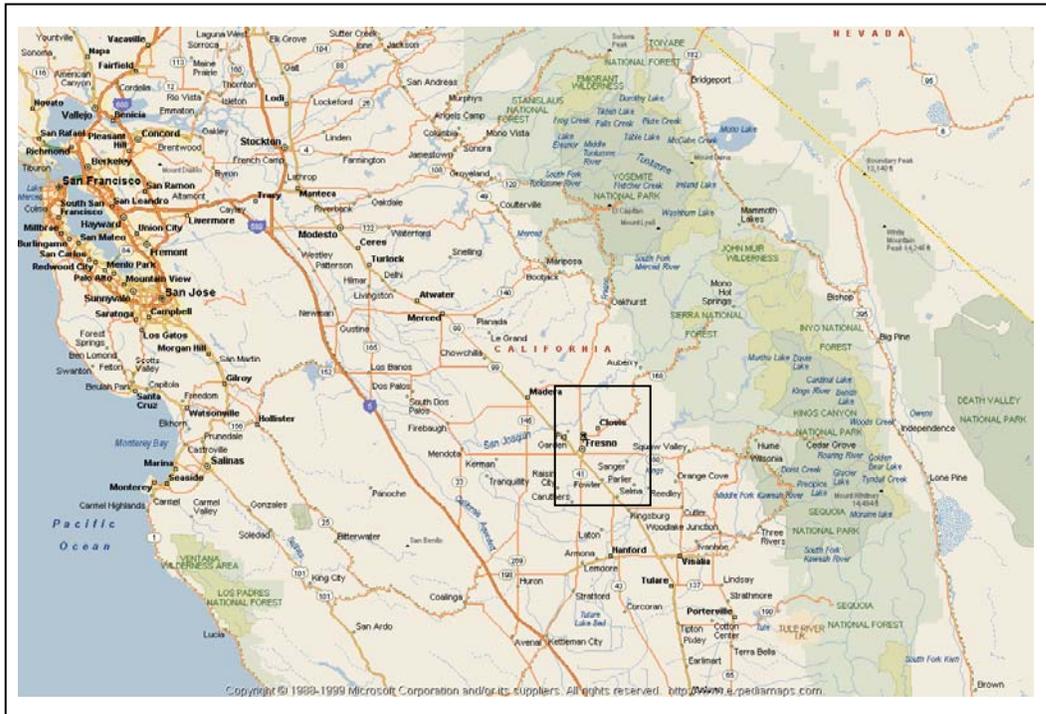
## California Ambient Dioxin Air Monitoring Program - Site Summary -

### Fresno – First Street

*This page updated on March 26, 2007*

#### **Site Location:**

Monitoring for the California Ambient Dioxin Air Monitoring Program (CADAMP) was conducted at 3425 North First Street in Fresno. At this location comprehensive air monitoring is conducted regularly for air toxics and criteria pollutants.

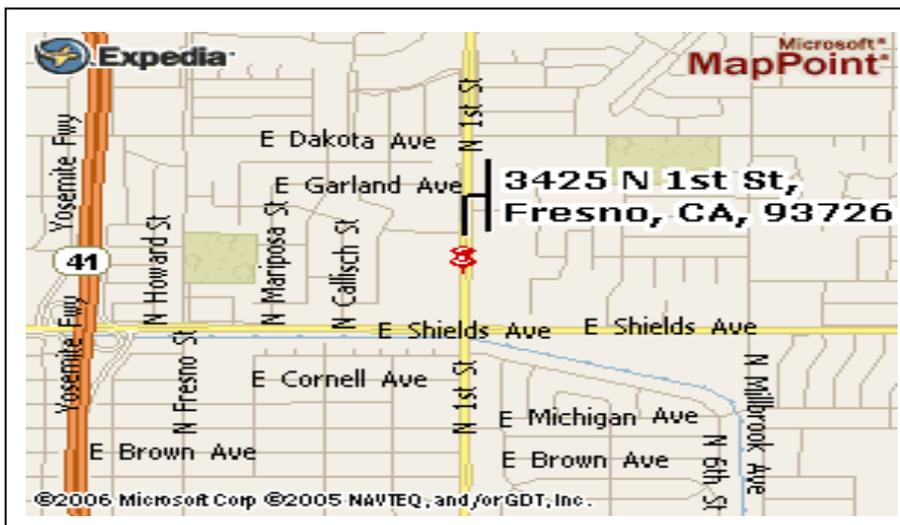


#### **Monitoring Start Date:**

Collection of samples for ambient air quality analysis for CADAMP at First Street began in January 2005.

#### **Reason for Choosing Fresno-First Street:**

This site was chosen as an urban site in 2005 and is the first urban site in the San Joaquin Valley under CADAMP. To date, no ambient dioxin samples have been collected in the San Joaquin Valley under CADAMP. This site was selected because of its urban location near mobile source emissions. This site will provide additional data on urban ambient concentrations of dioxins, furans, dioxin-like polychlorinated biphenyls (PCBs), and polybrominated diphenyl ethers (PBDEs).



**Emission Sources:**

Fresno is located near downtown, is close to Highway 41 traffic and is primarily impacted by mobile source emissions.

**Monitoring Parameters:**

Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans, congener specific PCBs and PBDEs (flame retardants). A total of 75 compounds will be evaluated each month. Meteorological parameters will include wind speed, wind direction, ambient temperature and relative humidity.

**Monitoring Schedule:**

The dioxin sampler will be run for 24 days each month for the duration of the project. Quartz fiber filters and XAD resin sandwiched between layers of polyurethane foam (PUF/XAD cartridges) comprise the sampling media. 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 and PUF/XAD will be composited for a single monthly sample analysis. Meteorological data will be collected continuously.

**Anticipated End Date:**

Ambient dioxin air monitoring was conducted for one and one-half years. Monitoring ended at this site in May 2006.

**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 AQSB staff will perform all routine sample collection tasks. A laboratory under contract to ARB will perform analysis of samples collected at Sacramento. Staff in the ARB Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role to coordinate sampling efforts, track the project, validate the data and conduct quality control and quality assurance activities. ARB's Stationary Source Division (SSD) will perform risk assessment. Data will be shared with the U.S. EPA and the San Joaquin Valley Air Pollution Control District. SSD will post results on the internet for the public.

**Connection to Other Air Resources Board Programs:**

The ARB is collecting samples routinely for air toxic measurements as part of their air toxic network at the Fresno-First Street site. Monitoring is currently being performed for CO, SO<sub>2</sub>, NO<sub>2</sub>, ozone, particulates (PM<sub>10</sub> and PM<sub>2.5</sub>), and toxics.

**For more information contact: Kathy Gill, Manager, Organic Laboratory Section**