



## Characterization of air pollution in parks and recreational areas

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### Abstract:

Level of traffic related air pollutants in public parks and trails where regular exercise takes place are not evaluated well enough to understand the exposures to air pollutants while using the parks and trails. People's choice of active transportation such as cycling for commuting may elevate their exposures to traffic related air pollutants due to the close proximity to traffics. The purpose of the proposed and on-going project is to monitor and characterize air pollution at or near park and trails in Fresno/Clovis area for spatial temporal variation of the pollution levels. The proposed study will include collecting data on air pollutants, but not limiting to, PM10 (particulate matter 10), PM2.5, Black carbon, Polycyclic Aromatic Hydrocarbons (PAHs), ultra fine particles, and ozone. The levels of different particulate matter species will be examined with the levels monitored in the neighborhoods trails for the Children's Health to Air Pollution Study (CHAPS-SJV) and other mobile monitoring results.