



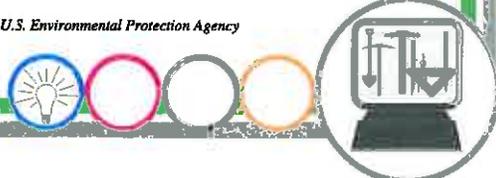
## Air Pollution Models

EPA-454/R-92-006  
(Revised)

**User's Guide to CAL3QHC Version 2.0:  
A Modeling Methodology for Predicting  
Pollutant Concentrations Near  
Roadway Intersections**

U.S. Environmental Protection Agency  
Office of Air Quality Planning and Standards  
Research Triangle Park, NC 27711

*Photo Source: U.S. Environmental Protection Agency*



06-0017-11



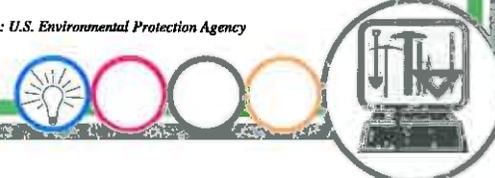
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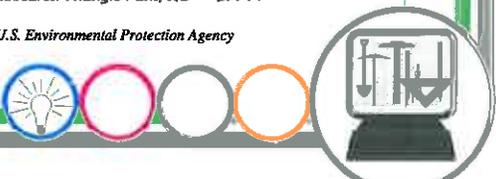
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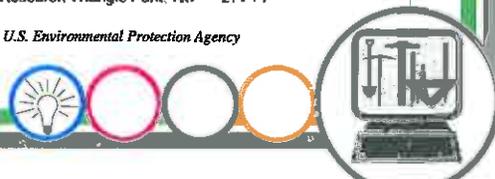
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## Air Pollution Models

Prediction of future air pollutant concentrations at a specific location is required for some CDOT transportation projects in areas with a current or past record of violating national ambient air quality standards. EPA-approved computer models called CAL3QHC and CAL3QHCR are available for this purpose. These models can predict concentrations of carbon monoxide and particulate matter.

These models keep track of the amount and location of vehicular pollution produced during the course of an hour, including air movement based on wind speed and direction as well as other atmospheric conditions. The model is then able to predict the average concentration of the pollutant at various receptor locations around the site and predict the magnitude and location of the highest expected concentration.



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