

GOAL

Document the time, concentrations, duration and indoor distribution patterns of carbon monoxide (CO) from rush hour traffic.

APPLICATION - METROPOLITAN COMMUNITY COLLEGE

A large Metropolitan Community College used an AIRxpert 7000 to investigate intrusions of noxious fumes from nearby rail and highway sources. Forty-eight monitoring points were chosen in the classroom wings, administrative offices and common areas to ensure that the data would be representative of the entire ventilation system. The Administration knew the source of the problem; however, data was needed to support the response to teachers, parents and students who were concerned about the quality of the air in the building.

The study focused on two key issues: the potential health risk of carbon monoxide (CO), and the performance of the ventilation system in purging CO from the building

BENEFIT

The data showed that CO concentrations in the monitored locations were well below the National Ambient Air Quality Standard. It also showed that the mechanical systems were working very well, and that as soon as the CO plumes from rush hour traffic subsided, the indoor environment quickly recovered.

