

## GOAL

Verify that energy conservation measures such as replacement of inefficient heating and air conditioning equipment have not compromised IEQ.

## APPLICATION - SUBURBAN ELEMENTARY SCHOOL

When the electric utility offered to exchange an old, inefficient heating system for new ground-source heat pumps in a suburban elementary school, it was accepted. However, the faculty, parents and administration were concerned that the change-over could adversely affect the school's ventilation system.

Addressing that concern, the utility offered to conduct a baseline study using an AIRxpert monitoring system to document the distribution of outside air to 24 occupied areas throughout the building before and after work was done. Monitoring points were selected in classrooms, administrative and common areas that were representative of the entire ventilation system.

## BENEFIT

The initial baseline data showed that with few exceptions the existing ventilation system was performing as intended.

When a follow-up study was performed 10 months later after the project was completed, the data showed that the quality of the indoor environment had not been adversely affected by the project.

