

Executive Summary

An Indoor Environmental Quality (IEQ) assessment was conducted on May 16, 2017 at Lions Park Elementary School in Mount Prospect, Illinois. The assessment consisted of field observations, environmental measurements for IEQ parameters and collection of samples of samples for airborne mold spores. The objective was to perform a routine indoor environmental quality (IEQ) assessment at Lions Park Elementary School. The findings are summarized below, more detailed findings and recommendations are included in the Conclusions and Recommendations section of this report.

Water stained ceiling tiles were observed in Room 130. Mold growth was not apparent at this location. No other signs of water damage were identified on accessible surfaces. The source of moisture responsible for the stain should be identified and corrected and stained ceiling tiles replaced.

Visual inspection of the heating, ventilation, and air-conditioning (HVAC) systems found the majority of internal components to be clean. Univent filters were found to be loaded and in need of replacement. There was some debris build-up in uninvent drip pans in Rooms 146 and 177. The filters in the AHU's were mostly clean and are scheduled to be replaced 3 times a year. AHU #3 which services the gymnasium did have slightly dust loaded filters. These filters may require replacement more often than the other AHUs. The loading of filters would be expected towards the end of the school year. Filter changes and cleaning of the units is planned for the summer.

No visible mold growth was observed on accessible surfaces. Photographs of the conditions observed during the assessment can be found in Appendix D.

Indoor air quality testing parameters included carbon monoxide (CO), carbon dioxide (CO₂), temperature, and relative humidity (RH). Carbon dioxide levels ranged from 484 parts per million (ppm) to 1,591 ppm. Indoor CO₂ concentrations were slightly above guidelines in some locations. This is not a health concern but indicates that the amount of outside air being brought in through the ventilation systems should be increased. Carbon monoxide testing results ranged from 0.0 to 1.3 ppm throughout the school. These levels are not a concern.

Temperature ranged from 70.5 degrees Fahrenheit (0F) to 74.80F throughout the school. These were acceptable temperatures. Relative humidity (RH) ranged from 38.7 to 63.0 which are consistent with outdoors but slightly above the recommended level of 60%.

Spore trap mold sample results are unremarkable with concentrations inside the school less than outdoors in all samples with similar mold types found both indoors and outdoors.