

IEA, INC.

2020 - 2021 IAQ Walkthrough



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Fridley ISD #14 Area Learning Center

Walkthrough Date & Time:
Thursday, February 18, 2021
12:00 PM to 2:00 PM

Project Description

IEA conducted an Indoor Air Quality (IAQ) walkthrough at Area Learning Center by IEA representative, Brian Bergstrom. This walkthrough was conducted with the intent of gathering basic air quality and visual observations which will assist the District in making informed and proactive decisions to improve and maintain acceptable air quality in the building. This walkthrough is based upon the Environmental Protection Agency's (EPA's) Tools for Schools IAQ guidelines.

Some observations gathered during the walkthrough may identify issues which may require additional testing, evaluation or further investigation.

The findings, conclusions and recommendations presented herein are believed to be accurate and representative of the building on the date and time of the walkthrough.

GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from Fridley ISD #14 at the indicated locations. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted indoor air quality practices. Other than as provided in the preceding sentence, no warranties are extended or made.

Building Information

General information regarding the building was collected during the walkthrough. The information gathered during this process is a vital component, as it is helpful in determining how these items may play a role in possible IAQ related issues.

Below is a summary of the information gathered during the walkthrough:

- The building has one (1) floor.
- The building was originally constructed in 1957.
- There are additions to the building, in the following year(s): 1965 and 1997.
- There are inoperable windows in the exterior rooms within the building.
- The building does utilize walk-off mats.
- There are no below grade floors.
- There are no tunnels under portions of the building.

Observations Summary and Air Quality Measurements

Room / Location	Number of Occupants	Flooring Type	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
OUTDOORS						531	1.3	9.5	11.0
127	0	Carpet	No	<ul style="list-style-type: none"> Plants 	No	798	1.2	14.7	68.3
MAIN RECEPTION	1	Carpet, Rugs	No	<ul style="list-style-type: none"> Stained Ceiling Tiles: See Appendix A Plants 	No	820	1.0	14.0	68.8
125	0	Carpet	No	<ul style="list-style-type: none"> Stained Ceiling Tiles: See Appendix A 	No	742	1.5	12.3	69.7
129	1	Tile	No		No	735	1.3	11.4	70.3
123	1	Carpet	No		No	750	1.3	11.5	70.8
122	0	Carpet	No		No	725	1.5	11.1	71.0
120	0	Carpet	No		No	684	1.5	10.0	71.3
112	1	Carpet	No	<ul style="list-style-type: none"> Stained Ceiling Tiles: See Appendix A 	No	711	1.6	10.3	71.9
114	1	Carpet	No	<ul style="list-style-type: none"> Stained Ceiling Tiles: See Appendix A 	No	744	1.5	9.9	72.1
119	0	Carpet, Rugs	No	<ul style="list-style-type: none"> Stained Ceiling Tiles: See Appendix A 	No	620	1.6	8.1	70.9

Summary of Concerns & Recommendations

See below for IEA's list of concern areas and recommendations:

Indoor Air Quality Parameters/Guidelines

IEA recorded area(s) with humidity levels outside the ASHRAE recommended range of 30 - 60%. Relative humidity levels identified in area(s) listed below were found to be outside these guidelines. Low humidity levels tend to dry mucous membranes which may result in increased susceptibility to irritation. Elevated humidity levels can lead to condensation and provide conditions conducive to fungal growth. Low relative humidity is common in buildings during the heating season. An evaluation of the ventilation system controls, performance and operation is recommended.

- 112
- 114
- 119
- 120
- 122
- 123
- 125
- 127
- 129
- MAIN
RECEPTION

Stained Ceiling Tiles

Stained ceiling tiles were found in the room(s) shown below. The impacted ceiling tiles should be removed and replaced, and the cause of the moisture repaired.

- 112
- 114
- 119
- 125
- MAIN
RECEPTION

Plants

Plants in an occupied location can be a source of allergens to sensitized individuals due to the pollen and soil mold. It is recommended that plants be removed from locations occupied by sensitized individuals. If plants are to remain in the area, IEA recommends that plants should not be placed near air unit ventilators or air supply diffusers. Additionally, plants should be watered from the bottom. These measures will help control pollen and mold spores from becoming airborne.

- 127
- MAIN
RECEPTION

Appendix A

Photo Documentation



MAIN RECEPTION
Stained Ceiling Tiles



125
Stained Ceiling Tiles



112
Stained Ceiling Tiles



114
Stained Ceiling Tiles



119
Stained Ceiling Tiles



119
Stained Ceiling Tiles