

IEA, INC.

# 2020 - 2021 IAQ Walkthrough



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## Fridley ISD #14

## R. L. Stevenson Elementary School

Walkthrough Date & Time:

Monday, April 5, 2021

10:00 AM to 12:00 PM

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## Project Description

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IEA conducted an Indoor Air Quality (IAQ) walkthrough at R. L. Stevenson Elementary School 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.

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## Building Information

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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 1968.
- There are additions to the building, in the following year(s): 1995, 2013 and 2016.
- There are operable windows in the exterior rooms within the building.
- The building does utilize walk-off mats.
- There are 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 <sub>2</sub> (ppm)	CO (ppm)	RH (%)	Temp (°F)
OUTDOORS						353	0.7	45.3	72.0
120	0	Carpet, Rugs	No		No	406	0.8	39.5	71.8
125	23	Carpet	No		No	473	1.5	39.4	72.0
118	5	Carpet, Rugs	No	• Plants	No				
123	0	Tile	No	• Stained Ceiling Tiles	Yes Air Return	397	1.4	37.2	72.2
121	0	Carpet, Rugs	No		No	399	1.7	35.2	72.3
116	3	Carpet, Rugs	No		No	421	1.8	36.4	72.7
114	1	Carpet	No		No	416	1.8	36.1	72.8
119	0	Carpet	No		No				
146	22	Tile, Rugs	No		No	931	1.7	37.4	72.5
147	15	Tile, Rugs	No		No	742	1.7	36.4	72.7
148	1	Tile, Rugs	No		No	480	1.7	33.8	72.8
149	1	Tile, Rugs	No		No	568	1.5	34.1	72.8
145	0	Tile, Rugs	No		No	483	1.7	33.5	73.0
144	1	Tile	No		No	499	1.5	33.5	72.9
140	1	Tile, Rugs	No	• Plants	No	500	1.7	33.7	72.7
141	1	Tile, Rugs	No		No	556	1.5	33.9	72.8

Room / Location	Number of Occupants	Flooring Type	Odor Present	Observations	Dust Accumulation	CO <sub>2</sub> (ppm)	CO (ppm)	RH (%)	Temp (°F)
142	1	Tile, Rugs	No		No	535	1.7	34.2	72.8
143	1	Tile, Rugs	No		No	533	1.6	34.0	72.8
117	11	Carpet	No	• Plants	No	640	1.7	34.0	73.1
112	2	Carpet, Rugs	No		Yes Air Return	608	1.6	34.4	73.4
115	1	Carpet	No		No	515	1.5	34.9	73.6
113	16	Carpet	No	• Plants	Yes Air Return	644	1.7	36.0	74.0
110	24	Carpet, Rugs	No		No	712	1.7	36.6	74.2
111	19	Carpet	No		No	794	1.5	33.8	74.3
109	2	Carpet, Rugs	No		Yes Air Return	581	1.5	34.4	74.5
108	22	Carpet, Rugs	No		No	628	1.5	35.3	74.7
MEDIA CENTER	3	Carpet	No		Yes Ceiling Tiles Around Air Supply	619	1.6	30.0	73.9
MEDIA CENTER COMPUTER LAB	0	Carpet	No		No	607	1.6	30.9	73.6
MEDIA CENTER OFFICE	0	Carpet	No		No	619	1.6	30.7	73.2
MEDIA CENTER WORKROOM	0	Carpet	No		No	623	1.6	30.2	72.4
106	18	Tile, Rugs	No		No	899	1.3	33.0	73.8
107	2	Carpet	No		No	799	1.3	32.7	74.4
105	20	Tile, Rugs	No		No	1,091	1.3	34.4	74.2

Room / Location	Number of Occupants	Flooring Type	Odor Present	Observations	Dust Accumulation	CO <sub>2</sub> (ppm)	CO (ppm)	RH (%)	Temp (°F)
104	2	Carpet, Rugs	No		Yes Air Intake	847	1.3	33.5	74.3
102	1	Carpet	No		Yes Air Intake	789	1.5	33.2	74.4
103	2	Tile, Rugs	No		No	818	1.5	30.9	74.5
101	13	Carpet, Tile, Rugs	No		No	921	1.6	31.5	74.2
MAIN OFFICE	2	Carpet	No		Yes Air Return	706	1.5	30.4	74.1
MAIN OFFICE BREAK ROOM	0	Tile	No		No	673	1.6	30.2	74.5
MAIN OFFICE CONFERENCE	0	Carpet	No	• Plants	Yes Air Return	742	1.7	30.3	74.1
MAIN OFFICE CONFERENCE	0	Carpet	No		No	750	1.6	30.7	73.5
137	0	Carpet	No	• Plants	Yes Air Return	680	1.3	30.1	74.6
135	24	Carpet, Rugs	No		No	672	1.2	33.3	74.7
133	24	Tile, Rugs	No		No	682	1.3	35.1	75.0
131	1	Carpet	No		No	535	1.3	31.5	75.0
129	1	Carpet, Rugs	No		Yes Air Return	513	1.4	32.5	74.2
126	21	Carpet	No	• Stained Ceiling Tiles	Yes Air Return, Ceiling Tiles Around Air Supply	694	1.4	33.5	74.3
124	0	Carpet, Rugs	No		No	554	1.4	30.9	74.4
122	3	Carpet	No		No	513	1.4	32.0	74.6

Room / Location	Number of Occupants	Flooring Type	Odor Present	Observations	Dust Accumulation	CO <sub>2</sub> (ppm)	CO (ppm)	RH (%)	Temp (°F)
CAFETERIA	3	Tile	No	<ul style="list-style-type: none"> <li>Stained Ceiling Tiles</li> </ul>	No	606	1.6	30.6	74.3
GYMNASIUM	0	Tile	No		Yes Ceiling Tiles Around Air Supply	563	1.5	30.8	74.5

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## Summary of Concerns & Recommendations

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

### **Indoor Air Quality Parameters/Guidelines**

No indoor air quality measurements were outside the normal ranges.

### **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.

- 123
- 126
- CAFETERIA

### **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.

- 113
- 117
- 118
- 137
- 140
- MAIN OFFICE  
CONFERENCE



**Dust Accumulation**

IEA observed dust accumulation in the following room(s) and recommend that the specified area is wiped clean using a damp rag.

- 102                    *Air Intake*
- 104                    *Air Intake*
- 109                    *Air Return*
- 112                    *Air Return*
- 113                    *Air Return*
- 123                    *Air Return*
- 126                    *Air Return, Ceiling  
Tiles Around Air  
Supply*
- 129                    *Air Return*
- 137                    *Air Return*
- GYMNASIUM        *Ceiling Tiles  
Around Air Supply*
- MAIN OFFICE        *Air Return*
- MAIN OFFICE        *Air Return*
- CONFERENCE
- MEDIA CENTER      *Ceiling Tiles  
Around Air Supply*