

IEA, INC.

2022 - 2023 IAQ Walkthrough



Contact Us:

BROOKLYN PARK OFFICE

9201 W. BROADWAY, #600
BROOKLYN PARK, MN 55445
763-315-7900

MANKATO OFFICE

610 N. RIVERFRONT DRIVE
MANKATO, MN 56001
507-345-8818

ROCHESTER OFFICE

210 WOOD LAKE DRIVE SE
ROCHESTER, MN 55904
507-281-6664

BRAINERD OFFICE

601 NW 5TH STREET SUITE #4
BRAINERD, MN 56401
218-454-0703

MARSHALL OFFICE

1420 EAST COLLEGE DRIVE
MARSHALL, MN 56258
507-476-3599

VIRGINIA OFFICE

5525 EMERALD AVENUE
MOUNTAIN IRON, MN 55768
218-410-9521

www.ieasafety.com

info@ieasafety.com

800-233-9513

Jordan Public Schools Jordan Elementary

Walkthrough Date & Time:
Thursday, March 24, 2022
9:00 AM to 11:00 AM

Project Description

IEA conducted an Indoor Air Quality (IAQ) walkthrough at Jordan Elementary by IEA representative, Alex Liebl. 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 Jordan Public Schools 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 1974.
- There are additions to the building, in the following year(s): 1993 and 2002.
- There are operable and inoperable 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 ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
OUTDOORS						431	2.8	42.9	36.4
18	1	Carpet	No		No	985	2.0	31.7	68.2
21	2	Carpet	No		No	742	2.9	28.0	68.9
23	1	Carpet	No		No	713	2.9	27.5	69.4
24	1	Carpet	No		No	710	2.9	26.6	69.9
26	1	Carpet	No		No	713	2.7	26.3	69.4
28	25	Carpet	No	<ul style="list-style-type: none"> Stained Ceiling Tiles: See Appendix A 	No	1,204	2.6	29.8	69.8
31	25	Carpet	No		No	1,328	2.6	29.5	70.4
39	2	Carpet	No		No	1,206	2.6	29.0	70.8
41	1	Carpet	No		No	1,150	2.4	28.6	71.8
42	1	Carpet	No		No	966	2.7	27.4	71.7
43	1	Carpet	No		No	1,268	2.6	29.1	71.3
47	1	Carpet	No		No	1,232	2.4	27.2	71.2
46	1	Carpet	No		No	895	2.6	26.9	70.9
71	1	Carpet, Tile	No		No	1,011	1.9	29.8	71.4
73	1	Carpet	No		No	1,198	2.6	28.9	71.5
74	3	Carpet, Tile, Rugs	No		No	1,105	2.3	28.1	70.9
75	1	Carpet, Tile	No		No	931	1.8	27.5	70.6
83	20	Carpet, Tile	No		No	1,048	1.9	29.3	71.1
84	3	Carpet, Tile	No		No	1,031	2.0	27.2	70.9

Room / Location	Number of Occupants	Flooring Type	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
54	8	Carpet, Rugs	No		No	963	1.7	27.5	71.7
CAFETERIA	1	Tile	No		No	707	2.0	24.9	71.3
KITCHEN	5	Rubber	No		No	1,017	2.0	29.4	70.9
60	1	Carpet, Tile, Rugs	No		No	910	1.9	27.7	70.6
8 - GYM	1	Rubber	No		No	783	1.9	26.5	70.0
94	1	Carpet, Tile, Rugs	No		No	858	1.7	28.1	69.8
92	2	Carpet	No		No	930	1.9	28.8	70.3
MAIN OFFICE	5	Carpet	No		No	1,123	1.7	27.4	71.2

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 carbon dioxide measurements above 1,200 ppm in the room(s) listed below. IEA considers carbon dioxide measurements above 1,200 ppm as an indication of a possible ventilation issue. The ventilation system(s) serving the location(s) with these levels should be evaluated.

- 28
- 31
- 39
- 43
- 47

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.

- IEA identified twenty-six (26) rooms with relative humidity levels below 30%. However, this is common for non-humidified buildings during the heating season and is not considered an issue.

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.

- 28

Appendix A

Photo Documentation



28

Stained Ceiling Tiles