Quaker Farms School:

Indoor Air Quality Assessments and Mold Testing

Presented to: Oxford Board of Education – Oxford Public Schools

Presented by: EnviroMed Services, Inc.

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Lawrence J. Cannon, MPH, CIH, CSP, CMC, RS

45 Years of Experience

Educations and Experience

- **Master of Public Health, *Yale University, School of Medicine***
- **Yale University School of Medicine, School of Public Health - Faculty Lecturer (10 Years)**
- **President and Founder of EnviroMed Services, Inc. (Since 1986)**

Certifications

- **MPH – Master of Public Health**
- **CIH – Certified Industrial Hygienist**
- **CSP – Certified Safety Professional**
- **CMC – Certified Microbial Consultant**
- **RS – Registered Sanitarian**

Yale Univeristy
School of Medicine

CMC
Council-certified Microbial Consultant

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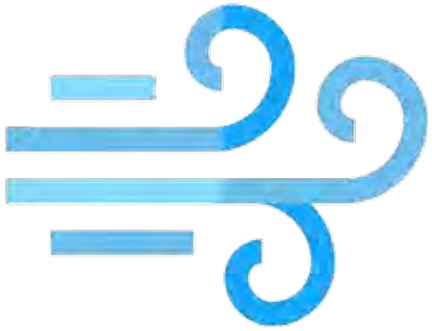
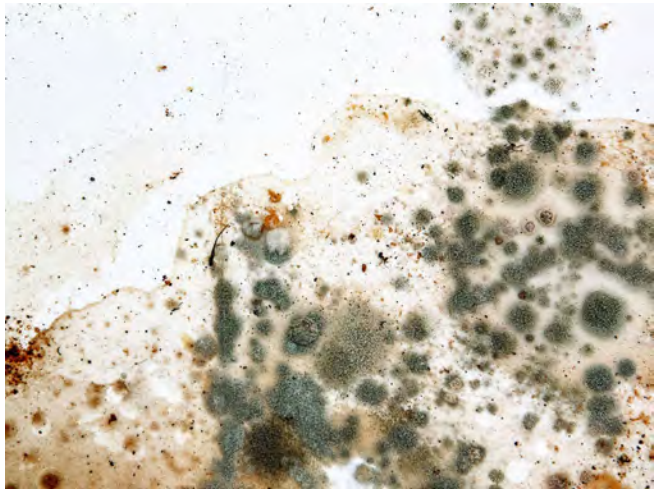
Quaker Farms School



Understanding Mold, Moisture, & Indoor Air Quality



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Background – What You Need to Know about Mold

Mold is natural and common.

- Mold is a normal part of the environment and is found wherever moisture, oxygen, and a food source are present – including indoors.

Not all mold is harmful, and some is even useful.

- Mold is used in the production of foods like blue cheese, brie & camembert, cured meats (salami or sausages), soy sauce, miso, and more.

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Background – What You Need to Know about Mold

Surface mold can appear on:

- Wood
- Paper
- Carpet
- Foods
- Other Porous materials

Surface mold shouldn't be ignored

- If left unaddressed or not properly removed and cleaned, surface mold can become airborne, increasing the risk of health impacts

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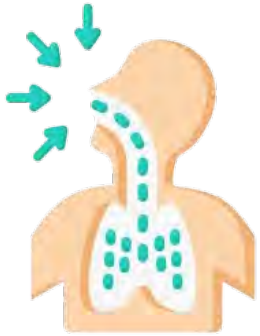
Background – What You Need to Know about Mold

Mold isn't always visible or have a smell – but often is.

A musty odor can indicate that mold spores are airborne and circulating indoors.



What should we know about airborne mold?

- **Once surficial mold is amplified and becomes airborne,** airborne mold poses a higher health risk because it can be directly inhaled.
- **Once airborne mold is inhaled, it can trigger greater health risks,** especially for those who are sensitive or have respiratory conditions

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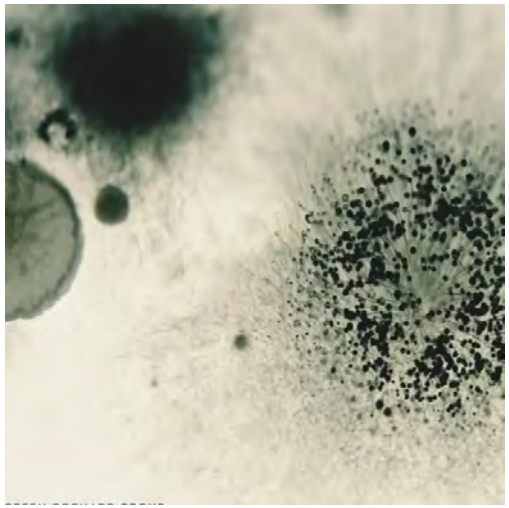
How Does Mold Spread Indoors?

How does mold spread?

- Mold releases tiny spores that float through the air
- These spores can land on damp surfaces and grow
- Once airborne, mold poses a higher risk — especially when inhaled



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How Does Mold Spread Indoors?

What causes indoor mold growth?

- Moisture from leaks, humidity, or flooding
- Poor ventilation or unaddressed water damage
- Damp materials like drywall, ceiling tiles, or carpeting

💡 *Controlling moisture is the best way to prevent mold growth*

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Health Effects of Mold Exposure

Mold can cause health symptoms, especially for sensitive individuals:

- Coughing, sneezing, runny nose, or itchy eyes
- Headaches, skin irritation, or sore throat
- Worsened asthma, trouble breathing, or chest tightness

People most at risk include:

- Children
- Older adults
- Anyone with asthma or a weakened immune system

💡 *Not everyone reacts the same — but reducing mold protects everyone's health*

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EnviroMed's Mold Inspection Overview

- An outdoor air sample was collected to establish the natural background level of mold.
- Mold spores are naturally present in outdoor air.
- Outdoor spore levels (baseline) are compared to the mold levels found within the building.
- Indoor air samples were then collected throughout the school to evaluate indoor mold levels.
- Each mold sample was analyzed by a nationally accredited laboratory.
- Laboratory analysis includes the type and quantity of mold.

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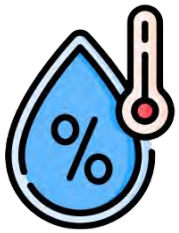
What is Indoor Air Quality (IAQ)?

- **IAQ refers to the quality of air within and around buildings,** especially relating to health, comfort, and well-being of building occupants.

What influences IAQ?

- The factors that can influence IAQ include:



- Pollutants
- Ventilation
- Temperature
- Humidity
- Conditions of the building(s)
- Condition & Maintenance of the HVAC Systems

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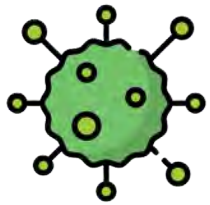
What Factors Influence Indoor Air Quality (IAQ)

What protocol did we use to evaluate the school buildings?

EnviroMed conducted real-time readings and air sampling for the following parameters:

- Temperature
- Relative Humidity
- Carbon Monoxide (CO)
- Carbon Dioxide (CO_2)
- Volatile Organic Compounds (VOCs)
- Formaldehyde
- Particulates in the Air (Dust), and
- Mold Spores & Fungi



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Real-Time IAQ Monitoring & Sampling Equipment

Formaldehyde Meter

This tests for:

- **Formaldehyde**

IAQ Meter

This tests for:

- **Temperature**
- **Relative Humidity**
- **Carbon Monoxide (CO)**
- **Carbon Dioxide (CO_2)**

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Real-Time IAQ Monitoring & Sampling Equipment

Photoionization Detector (PID)

This tests for Volatile Organic Compounds (VOCs)

DataRAM

This tests for Particulates in the Air (Dust).

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Indoor Air Quality (IAQ) - Standards We Use

How did we know that the results of the evaluation are acceptable?
EnviroMed references trusted health & safety guidelines for leading organizations:

OSHA® *(Occupational Safety and Health Administration)*

(Environmental Protection Agency)

ASHRAE® *(American Society of Heating, Refrigerating, and Air-Conditioning Engineers)*

(Leadership in Energy and Environmental Design)

EnviroMed's commitment to Quaker Farms is to give information about existing indoor air conditions and compare them to these standards.

Assessment & Testing Timeline

Date	Type of Inspection
Sunday, February 22, 2026	• Indoor Air Quality (IAQ) Assessment throughout the school • **Mold Testing – 62 Samples**
Monday, March 2, 2026	• **Mold Clearance Testing – 2 Rooms** • **Additional Mold Testing – 1 Rooms** • **IAQ Readings – 4 rooms**
Tuesday, March 3, 2026	• Indoor Air Quality (IAQ) Assessment throughout the school
Thursday, March 5, 2026	• Indoor Air Quality (IAQ) Assessment throughout the school • **Mold Testing – 79 samples**
Monday, March 9, 2026	• Indoor Air Quality (IAQ) Assessment throughout the school

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Summary of Indoor Air Quality Assessments and Mold Testing

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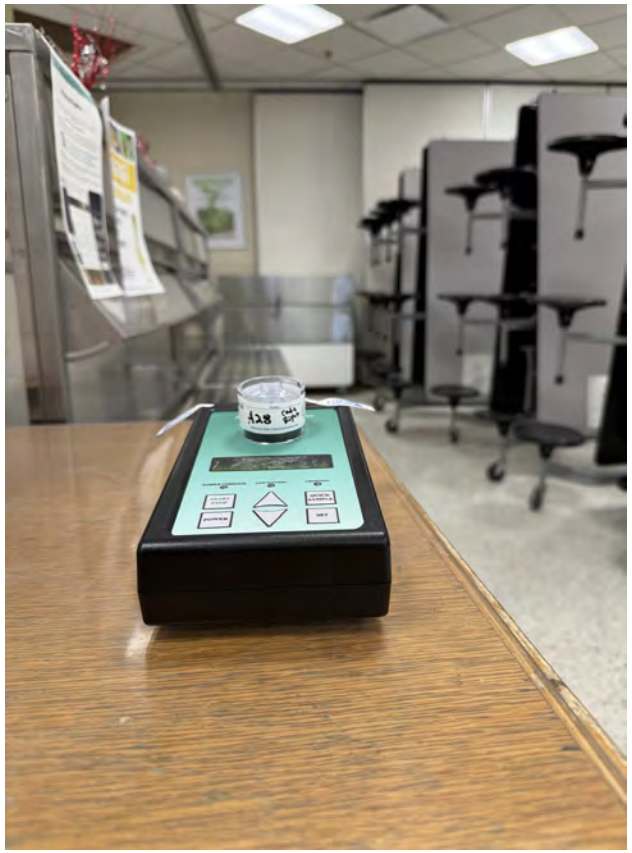
February 22nd Summary and IAQ Findings

EnviroMed went to measure indoor air quality and assess for microbial/fungal amplification for 61 rooms and 1 outdoor baseline.

IAQ Findings:

- Real-time readings for all indoor air quality (IAQ) parameters **were within acceptable ranges.**

- **Results were within EPA,ASHRAE, LEED, and OSHA standards**



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February 22nd Mold Findings (cont.)

Mold in Air:

- **High level of mold amplification in Room 320**
- **High level of mold amplification in the Computer Lab**
- There was **no evidence of airborne or amplification in any of the other areas tested.**
- **Rooms require cleaning and mold verification testing.**

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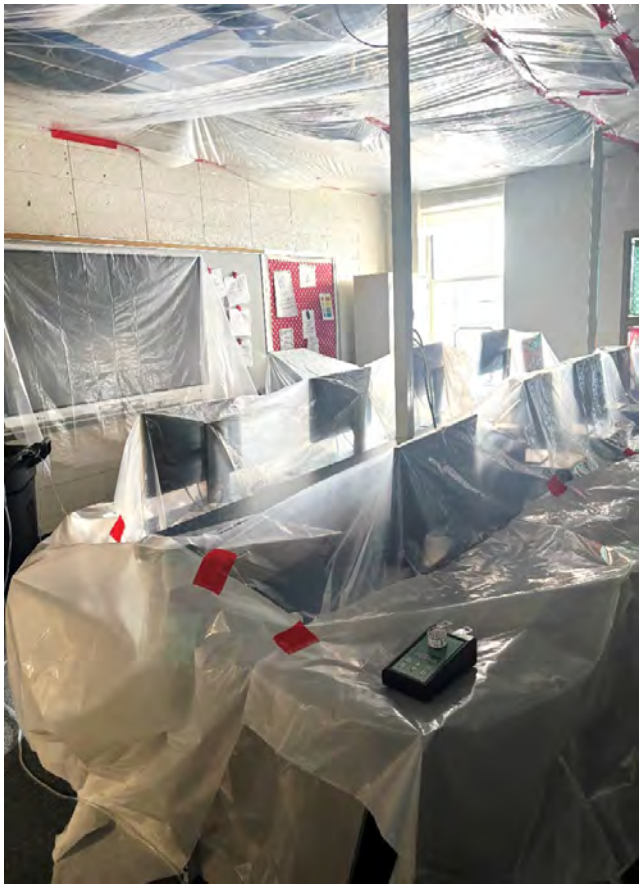
March 2nd Summary and Findings (CLEARANCE)

EnviroMed conducted mold clearance inspection to survey for airborne microbial/fungal contamination for **Room 320 and the Computer Lab.**



Findings:

- **There was no evidence of airborne mold contamination or amplification in Room 320 nor the Computer Lab.**

Conclusions:

EnviroMed Services, Inc. verified that both Room 320 and the Computer Lab have **passed the clearance testing.**

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March 2nd IAQ Summary and Findings

EnviroMed went to **measure indoor air quality for 4 rooms:** Resource Room, Resource Office Room, Resource Reding Room, and Library Conference Room.

IAQ Findings:

- Real-time readings for all indoor air quality (IAQ)parameters **were within acceptable ranges.**

- **Results were within EPA, ASHRAE, LEED, and OSHA standards**

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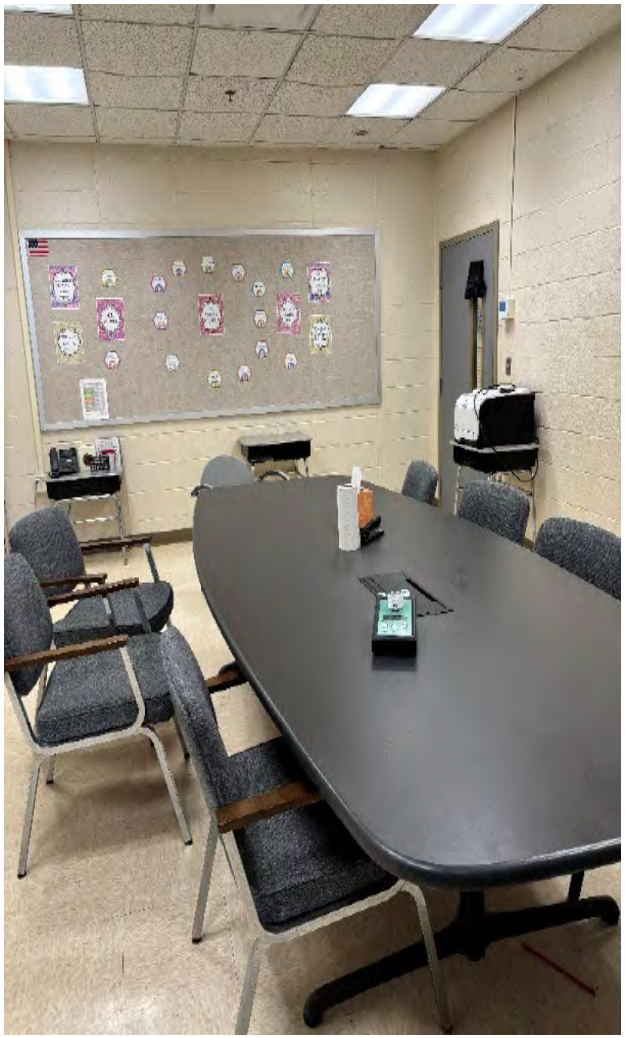
March 2nd Mold Testing Summary and Findings

EnviroMed went to assess for microbial/fungal amplification for the **Conference Room in the Media Center** (including an outdoor baseline sample).



Findings:

- **Air sample results did not indicate any sources of fungal amplification or toxigenic mold** in the areas tested.

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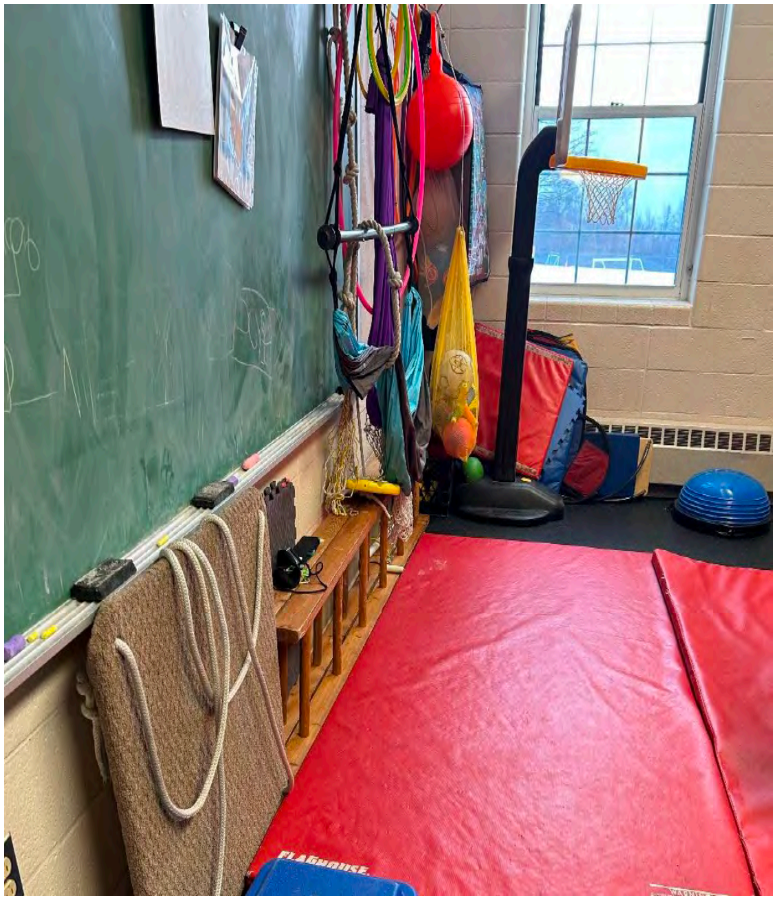
March 3rd Summary and Findings

EnviroMed went to measure indoor air quality for throughout the entire school.



Findings:

- Real-time readings for all indoor air quality (IAQ)parameters **were within acceptable ranges.**

- **Results were within EPA,ASHRAE, LEED, and OSHA standards**

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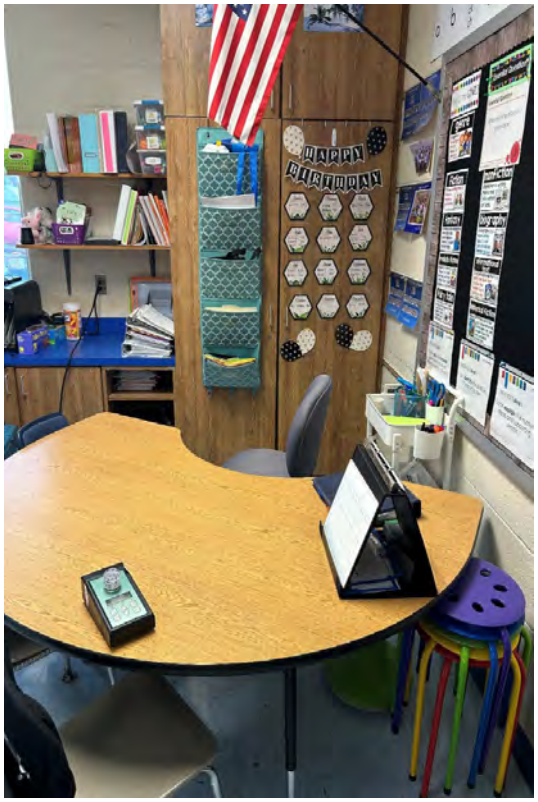
March 5th Summary

EnviroMed went to measure indoor air quality and assess for microbial/fungal amplification for **78 rooms and 1 outdoor baseline sample.**



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March 5th Findings

Indoor Air Quality :

- 8 Rooms/Areas had slightly elevated VOCs **due to the use of hand sanitizers, cleaning products, and air fresheners.**

- **All other areas had real-time readings for all indoor air quality (IAQ)parameters were within acceptable ranges.**

- **All other results were within EPA, ASHRAE,LEED, and OSHA standards**

Mold in Air:

- There was **no evidence of airborne amplification or presence of toxigenic mold in any of the areas tested throughout the school.**

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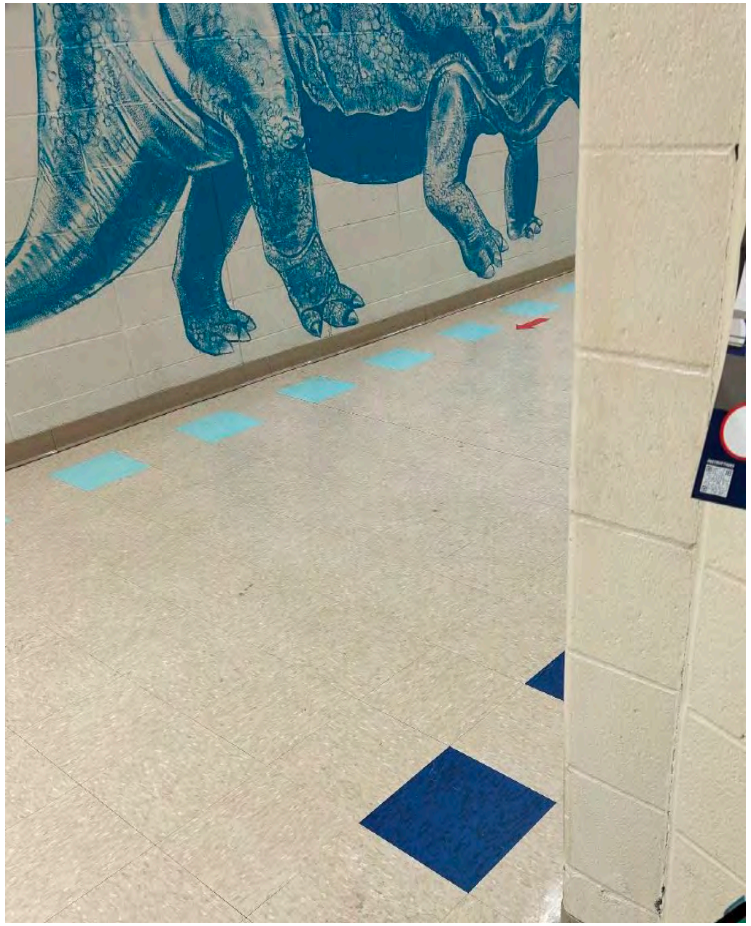
March 9th Summary and Findings

EnviroMed went to perform a comprehensive real-time indoor air quality (IAQ) assessment of **entire school including bathrooms and conference rooms/offices.**



IAQ Findings:

- **Real-time readings for all indoor air quality (IAQ) parameters were within acceptable ranges.**
- **Results were within EPA, ASHRAE, LEED, and OSHA standards.**

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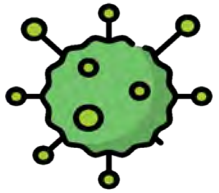
Indoor Air Quality Findings & Conclusions

Most recent data collected is as follows:



- **NO AIRBORNE MOLD amplification.**
- **NO AIRBORNE TOXIGENIC MOLD.**

The IAQ real-time testing included:

- **Temperature**
- **Relative Humidity**
- **Carbon Monoxide**
- **Carbon Dioxide**
- **Formaldehyde**
- **VOCs, and**
- **Particulates (dust)**

All results were generally within acceptable levels and standards

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Final Conclusions & Recommendations

- Our Certified Industrial Hygienist (CIH) and Certified Mold Consultant (CMC) reviewed all data collected
- **Quaker Farms School's indoor air quality is acceptable**
- **Quaker Farms School is fit for occupancy.**

Recommendations:

- **To maintain the optimal indoor air quality and temperature**, the school should **perform preventative maintenance on the HVAC system** per the manufacturer's recommended schedule.

Thank you from
EnviroMed Services, Inc.

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