

Item #bc EHS

Part I

# EnviroMed

*Cleaner environment. Safer workplaces.*

Fred Gerber  
Deputy Director, Enfield Public Works  
Re: Mold and Indoor Air Quality Results  
Enfield High School  
December 6, 2023

On September 18-22, 2023, EnviroMed Services conducted a Baseline Mold and Indoor Air Quality Assessment at Enfield High School. The initial findings revealed elevated levels of airborne *Cladosporium* mold spores in the E Wing Automotive Classroom. *Cladosporium* is a typical airborne allergen commonly detected in ambient air samples. Elevations of common allergens like *Cladosporium* are not unusual during periods of higher humidity or moisture levels.

Following these findings, the E Wing Automotive Classroom was cleaned and disinfected thoroughly to eliminate any elevations of airborne mold. On November 7, 2023, EnviroMed Services conducted Clearance Air Testing in the E Wing Automotive Classroom to confirm the successful remediation of the airborne elevation. This air test revealed no elevations of *Cladosporium* or any other airborne mold. EnviroMed Services considers this Test a PASS and considers the space safe for student use.

# EnviroMed

*Cleaner environment. Safer workplaces.*

## **Baseline Indoor Air Quality Report For**

Enfield High School  
1264 Enfield Street  
Enfield, CT 06082

### **Prepared For**

Russell and Dawson  
1111 Main Street  
East Hartford, CT 06108

### **Dates of Inspection and Testing:**

September 18 – September 22, 2023,  
and November 7, 2023

### **Revision Date:**

December 5, 2023

### **EnviroMed Project**

# IH-23-1377

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# TABLE OF CONTENTS

Section	Page
<b>I. PROJECT NARRATIVE</b> .....	1
Overview .....	1
Methods.....	1
Summary of Results .....	2
Conclusions .....	13
Recommendations.....	14
<b>II. TABLE OF IAQ MEASUREMENTS</b> .....	16
<b>III. PHOTOGRAPHS</b> .....	29
<b>IV. LABORATORY ANALYSIS REPORT</b> .....	42
<b>V. LABORATORY ANALYSIS CLEARANCE REPORT</b> .....	76
<b>VI. LABORATORY CERTIFICATION</b> .....	83

## I. PROJECT NARRATIVE

### Overview

From September 18 to September 22, 2023, and November 7, 2023, EnviroMed Services conducted a microbial and indoor air quality assessment for Enfield High School, located at 1264 Enfield Street, Enfield, Connecticut. The purpose of this assessment, as directed by Russell and Dawson Architects & Engineers (the Client), was to measure indoor air quality and baseline survey of high occupancy areas for airborne fungal contamination.

### Methods

The following sampling and assessment scheme was employed:

- Direct reading measurements were collected using a TSI Q-Trak™ model 8550/8551 IAQ Monitor. The baseline indoor air quality (IAQ) parameters temperature (°F), relative humidity (%), carbon monoxide (ppm), and carbon dioxide (ppm).
- Direct reading measurements for Volatile Organic Compounds (VOCs) were taken using a ppb RAE 3000 Photo Ionization Detector (PID).
- Direct reading measurements were taken for total particulates in the air using an MIE PDR 1000 Personal Data Ram Particle Analyzer.
- Direct reading measurements for Formaldehyde were taken using a Single Gas Forensics Detector.
- Conduct air sampling to measure the presence of airborne fungal structures, including spores, by drawing air through a Zefon Air-O-Cell cassette using a pre-calibrated vacuum pump. In this method, air enters the cassette and particles are collected on the sampling substrate. The manufacturer-recommended flow rate of 15 liters per minute of air, for a duration of 10 minutes, was used to collect each sample. Sample locations were selected based on client direction. A total of 13 samples were sent to Hayes Microbial Consulting in Midlothian, VA, for analysis by optical microscopy. Hayes Microbial Consulting is approved by the American Industrial Hygiene Association (188863) and the state of Connecticut Department of Public Health. The results are represented in counts of fungal structures and fungal structures per cubic meter of air (spores/m<sup>3</sup>).

## Summary of Results

### Indoor Air Quality Results

#### Indoor Air Quality Parameters:

**Temperature:** The ASHRAE recommended temperatures range from 72.0 to 80.0 °F (for Summer Months).

**Relative Humidity:** The ASHRAE recommended range for indoor relative humidity is 20 to 60 percent.

**Carbon Monoxide:** The OSHA PEL limit for carbon monoxide is 50 ppm, reported as an 8-hour time-weighted average.

**Carbon Dioxide:** Per the ASHRAE Standard 62-2001, Ventilation for Acceptable Indoor Air Quality, the difference between the indoor and outdoor concentrations should be less than 707 ppm. Additionally, the OSHA permissible exposure limit for carbon dioxide is 5000 ppm.

**Particulates in Air (Dust):** The OSHA Permissible Exposure Limit (PEL) for respirable and total particulates is 5 mg/m<sup>3</sup> and 15 mg/m<sup>3</sup> respectively.

**Volatile Organic Compounds (VOCs):** The maximum concentration of Total VOCs per the Leadership in Energy and Environmental Design (LEED) Standards is 0.5 ppm.

**Formaldehyde (CH<sub>2</sub>O):** The OSHA formaldehyde limit is 0.75 ppm, reported as an 8-hour time weighted average.

#### IAQ Readings - September 18, 2023

**Temperature:** The indoor temperatures ranged from 66.5 to 74.8 °F. The indoor temperatures were below the ASHRAE recommended range.

**Relative Humidity:** The indoor relative humidity ranged from 55.2 to 81.5 percent. Some of the relative humidity readings were above the ASHRAE recommended range of 20 to 60 percent relative humidity.

**Carbon Monoxide:** Indoor carbon monoxide concentrations ranged from ppm 0.7 to 1.2 ppm. These concentrations are below the OSHA PEL limit.

**Carbon Dioxide:** The outside carbon dioxide concentration recorded on this day was 558 ppm. The indoor concentrations ranged from 605 to 1344 ppm. **The difference between the highest indoor concentration and the outdoor concentration was 786 ppm. This is slightly above the recommended difference of less than 707 ppm.** Additionally, carbon dioxide concentrations were well below the OSHA permissible exposure limit.

**Particulates in Air (Dust):** The indoor concentration of particulates in air inside the building did not exceed 0.013 mg/m<sup>3</sup>. The concentration of particulates in air inside the building was well below the OSHA PEL at the time of the assessment.

**Volatile Organic Compounds (VOCs):** VOC readings ranged from 0.0 to 0.375 which is below the standard of 0.5 ppm.

**Formaldehyde:** Formaldehyde levels did not exceed 0.00 ppm throughout the testing. This concentration is below the OSHA formaldehyde limit.

#### IAQ Readings - September 19, 2023

**Temperature:** The indoor temperatures ranged from 68.7 to 75.3 °F. The indoor temperatures were below the ASHRAE recommended range.

**Relative Humidity:** The indoor relative humidity ranged from 57.6 to 72.4 percent. Some of the relative humidity readings were above the ASHRAE recommended range of 20 to 60 percent relative humidity.

**Carbon Monoxide:** Indoor carbon monoxide concentrations ranged from ppm 0.7 to 1.0 ppm. These concentrations are below the OSHA PEL limit.

**Carbon Dioxide:** The outside carbon dioxide concentration recorded on this day was 436 ppm. The indoor concentrations ranged from 552 to 1271 ppm. **The difference between the highest indoor concentration and the outdoor concentration was 834 ppm. This is slightly above the recommended difference of less than 707 ppm.** Additionally, carbon dioxide concentrations were well below the OSHA permissible exposure limit.

**Particulates in Air (Dust):** The indoor concentration of particulates in air inside the building did not exceed 0.033 mg/m<sup>3</sup>. The concentration of particulates in air inside the building was well below the OSHA PEL at the time of the assessment.

**Volatile Organic Compounds (VOCs):** VOC readings ranged from 0.0 to 0.466 which is below the standard of 0.5 ppm.

**Formaldehyde:** Formaldehyde levels did not exceed 0.00 ppm throughout the testing. This concentration is below the OSHA formaldehyde limit.

#### IAQ Readings - September 20, 2023

**Temperature:** The indoor temperatures ranged from 69.4 to 74.7 °F. The indoor temperatures were generally within the ASHRAE recommended range.

**Relative Humidity:** The indoor relative humidity ranged from 51.0 to 64.5 percent. Some of the relative humidity readings were above the ASHRAE recommended range of 20 to 60 percent relative humidity.

**Carbon Monoxide:** Indoor carbon monoxide concentrations ranged from ppm 0.6 to 1.1 ppm. This concentration is below the OSHA PEL limit.

**Carbon Dioxide:** The outside carbon dioxide concentration recorded on this day was 553 ppm. The indoor concentrations ranged from 555 to 1343 ppm. **The difference between the highest indoor concentration and the outdoor concentration was 790 ppm. This is slightly above the recommended difference of less than 707 ppm.** Additionally, carbon dioxide concentrations were well below the OSHA permissible exposure limit.

**Particulates in Air (Dust):** The indoor concentration of particulates in air inside the building did not exceed 0.000 mg/m<sup>3</sup>. The concentration of particulates in air inside the building was well below the OSHA PEL at the time of the assessment.

**Volatile Organic Compounds (VOCs):** VOC readings ranged from 0.0 to 0.535 which is slightly above the standard of 0.5 ppm.

**Formaldehyde:** Formaldehyde levels did not exceed 0.00 ppm throughout the testing. This concentration is below the OSHA formaldehyde limit.

#### IAQ Readings - September 21, 2023

**Temperature:** The indoor temperatures ranged from 69.2 to 74.8 °F. The indoor temperatures were generally within the ASHRAE recommended range.

**Relative Humidity:** The indoor relative humidity ranged from 46.9 to 63.5 percent. Some of the relative humidity readings were above the ASHRAE recommended range of 20 to 60 percent relative humidity.

**Carbon Monoxide:** Indoor carbon monoxide concentrations ranged from 0.7 – 1.3 ppm. This concentration is below the OSHA PEL limit.

**Carbon Dioxide:** The outside carbon dioxide concentration recorded on this day was 572 ppm. The indoor concentrations ranged from 578 to 1566 ppm. **The difference between the highest indoor concentration and the outdoor concentration was 994 ppm. This is above the recommended difference of less than 707 ppm.** Additionally, carbon dioxide concentrations were well below the OSHA permissible exposure limit.

**Particulates in Air (Dust):** The indoor concentration of particulates were not measured on this day.

**Volatile Organic Compounds (VOCs):** VOC readings ranged from 0.092 to 0.566 which is at or slightly above the standard of 0.5 ppm.

**Formaldehyde:** Formaldehyde levels did not exceed 0.00ppm throughout the testing. This concentration is below the OSHA formaldehyde limit.

#### IAQ Readings - September 22, 2023

**Temperature:** The indoor temperatures ranged from 67.4 to 82.1 °F. The indoor temperatures were generally within the ASHRAE recommended range.

**Relative Humidity:** The indoor relative humidity ranged from 52.8 to 76.2 percent. Some of the relative humidity readings were above the ASHRAE recommended range of 20 to 60 percent relative humidity.

**Carbon Monoxide:** Indoor carbon monoxide concentrations did not exceed 1.3 ppm. This concentration is below the OSHA PEL limit.

**Carbon Dioxide:** The outside carbon dioxide concentration recorded on this day was 514 ppm. The indoor concentrations ranged from 552 to 1316 ppm. **The difference between the highest indoor concentration and the outdoor concentration was 802 ppm. This is above the recommended difference of less than 707 ppm.** Additionally, carbon dioxide concentrations were well below the OSHA permissible exposure limit.

**Particulates in Air (Dust):** The indoor concentration of particulates were not measured on this day.

**Volatile Organic Compounds (VOCs):** VOC readings ranged from 0.004 to 0.388 which is below the standard of 0.5 ppm.

**Formaldehyde:** Formaldehyde levels did not exceed 0.00ppm throughout the testing. This concentration is below the OSHA formaldehyde limit.

#### Air-O-Cell Spore Trap Sampling Results

There are currently no federal or State of Connecticut regulatory standards for concentrations of mold in air. However, some commonly used guidelines have been established. Commonly accepted guidelines of 2,500 counts/m<sup>3</sup> for commercial buildings and 5,000 counts/m<sup>3</sup> for residential buildings (“Assessment and Sampling Approaches for Indoor Microbiological Assessments” by G. Clark, published in *The Synergist*, November 2001) can be considered valid for air quality assessment purposes. Any spore counts significantly higher than the accompanying baseline sample may indicate a source of fungal amplification.

#### **Microbial Organism Descriptions:**

**Alternaria:** Common allergens that are associated with hypersensitivity pneumonitis. This species can also produce mycotoxins that are associated with human disease.



*Ascospores:* Health effects are poorly studied, but spores are likely to be allergenic.

*Aspergillus/Penicillium:* Common allergens that are associated with hypersensitivity pneumonitis. These species can also produce mycotoxins that are associated with human disease.

*Basidiospores:* Common allergens that are associated with hypersensitivity pneumonitis.

*Cladosporium:* Common allergens that are associated with hypersensitivity pneumonitis.

*Curvularia:* Common allergens and a common cause of allergic fungal sinusitis.

*Epicoccum:* Common allergens with no reported cases of infection in humans.

*Myxomycetes:* Some allergenic properties are reported, but spores pose no threat to human health.

*Nigrospora:* Health effects are poorly studied.

*Pithomyces:* Allergenic properties are poorly studied with no reported cases of infection in humans.

*Polythrincium:* No known health or allergenic effects.

Air-O-Cell Sampling Results – September 18, 2023

**Sample ID: A2                      Sample Location: Lower Level – Automotive Classroom**

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**Significantly high levels of *Cladosporium* were present in this sample. Spore counts and volumes indicated a source of fungal amplification of this genus in this location.**

Low levels of *Aspergillus/Penicillium* were also present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A3                      Sample Location: Lower Level – A Wing Lobby (near Exit 23)**

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Low levels of *Basidiospores* and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A4                      Sample Location: 1<sup>st</sup> Floor – E Wing Common Area**

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Low levels of *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

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**Sample ID: A5**                      **Sample Location: 1<sup>st</sup> Floor – Main Entrance Lobby**

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Low levels of *Cladosporium*, *Curvularia*, *Epicoccum*, *Myxomycetes*, and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A6**                      **Sample Location: 1<sup>st</sup> Floor – Cafeteria**

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Low levels of *Epicoccum*, *Myxomycetes*, and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A7**                      **Sample Location: 2<sup>nd</sup> Floor – Library**

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Low levels of *Aspergillus/Penicillium*, *Cladosporium*, *Myxomycetes*, and *Rusts/Smuts* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A8**                      **Sample Location: 2<sup>nd</sup> Floor – 9<sup>th</sup> Grade Dean’s Office (E-212)**

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Low levels of *Myxomycetes* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

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**Sample ID: A9**                      **Sample Location: 3<sup>rd</sup> Floor – Class E-347**

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Low levels of *Myxomycetes* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

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**Sample ID: A10**                      **Sample Location: 3<sup>rd</sup> Floor - A Wing Hallway near Stairwell**

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Low levels of *Ascospores*, *Curvularia*, *Myxomycetes*, *Epicoccum*, and *Rusts/Smuts* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

Air-O-Cell Sampling Results – September 19, 2023

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**Sample ID: A12**                      **Sample Location: Lower Level – E Wing Hall / Lobby Area**

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Low levels of *Ascospores*, *Aspergillus/Pencillium*, *Basidiospores*, *Cladosporium* and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A13**                      **Sample Location: Lower Level – Class A-006**

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Low levels of *Ascospores* and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A14**                      **Sample Location: 1<sup>st</sup> Floor – Class E-132**

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Low levels of *Ascospores* and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A15**                      **Sample Location: 1<sup>st</sup> Floor – Main Office**

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Low levels of *Ascospores*, *Aspergillus/Penicillium* and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A16**                      **Sample Location: Lower Level – Gymnasium**

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Low levels of *Ascospores*, *Aspergillus/Penicillium* and *Myxomycetes* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A17**                      **Sample Location: 2<sup>nd</sup> Floor – A Wing Teacher's Lounge**

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Low levels of *Ascospores* and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A18**                      **Sample Location: 2<sup>nd</sup> Floor – Class E-204**

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Low levels of *Ascospores* and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

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**Sample ID: A19**                      **Sample Location: 3<sup>rd</sup> Floor – Class E-336**

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Low levels of *Ascospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A20**                      **Sample Location: 3<sup>rd</sup> Floor – Class A-303**

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Low levels of *Ascospores* and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

Air-O-Cell Sampling Results – September 20, 2023

**Sample ID: A22**                      **Sample Location: Lower Level – Class A-014**

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Low levels of *Ascospores* and *Cladosporium* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A23**                      **Sample Location: 1<sup>st</sup> Floor – Class E-133**

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Low levels of *Basidiospores* and *Cladosporium* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A24**                      **Sample Location: 1<sup>st</sup> Floor – Pupil Services (A-124 & A-142)**

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Low levels of *Ascospores*, *Basidiospores* and *Cladosporium* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A25**                      **Sample Location: Lower Level – Weight Room**

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Low levels of *Ascospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A26**                      **Sample Location: 1<sup>st</sup> Floor – Class D-107**

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Low levels of *Basidiospores* and *Cladosporium* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A27**                      **Sample Location: 2<sup>nd</sup> Floor – Stair C-ST1**

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Low levels of *Ascospores*, *Myxomycetes*, and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A28**                      **Sample Location: 2<sup>nd</sup> Floor – Class E-201**

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Low levels of *Ascospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A29**                      **Sample Location: 3<sup>rd</sup> Floor – Class E-337**

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Low levels of *Myxomycetes* and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A30**                      **Sample Location: 3<sup>rd</sup> Floor – Class A-301**

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Low levels of *Ascospores*, *Basidiospores*, and *Cladosporium* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

Air-O-Cell Sampling Results – September 21, 2023

**Sample ID: A31**                      **Sample Location: Classroom A-106**

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Low levels of *Ascospores* and *Myxomycetes* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A32**                      **Sample Location: 1<sup>st</sup> Floor – Stair E-ST2**

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Low levels of *Ascospores*, *Aspergillus/Penicillium*, *Basidiospores*, *Curvularia*, *Epicoccum*, *Myxomycetes*, and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A33**                      **Sample Location: Cafeteria**

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Low levels of *Ascospores*, *Aspergillus/Penicillium*, and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A34**                      **Sample Location: Gym Office**

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Low levels of *Ascospores*, *Aspergillus/Penicillium*, and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A35**                      **Sample Location: Pre-School Classroom A-005**

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Low levels of *Ascospores*, *Aspergillus/Penicillium*, and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A36**                      **Sample Location: Classroom E-212**

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Low levels of *Ascospores*, *Aspergillus/Penicillium*, *Basidiospores*, *Myxomycetes*, and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A37**                      **Sample Location: Classroom A-234**

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Low levels of *Ascospores*, *Basidiospores*, and *Polythrincium* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A38**                      **Sample Location: 3<sup>rd</sup> Floor – Vice Principal’s Office**

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Low levels of *Ascospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A39**                      **Sample Location: Classroom A-33A**

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Low levels of *Ascospores* and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

Air-O-Cell Sampling Results – September 22, 2023

**Sample ID: A41**                      **Sample Location: Classroom A-106**

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Low levels of *Alternaria*, *Ascospores*, and *Cladosporium* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A42**                      **Sample Location: Cafeteria Kitchen**

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Low levels of *Ascospores* and *Myxomycetes* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A43**                      **Sample Location: Classroom Across C-012**

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Low levels of *Ascospores* and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A44**                      **Sample Location: Ticket Booth Office**

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Low levels of *Ascospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A45**                      **Sample Location: Stairwell Near Exit 5**

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Low levels of *Ascospores*, *Basidiospores*, and *Myxomycetes* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A46**                      **Sample Location: Classroom E-221**

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Low levels of *Ascospores* and *Basidiospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

**Sample ID: A47**                      **Sample Location: Classroom A-226**

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Low levels of *Ascospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A48**                      **Sample Location: Hallway Ledge near Class E-332**

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Low levels of *Ascospores* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

**Sample ID: A49**                      **Sample Location: Elevator No. 049-0124**

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Low levels of *Ascospores*, *Myxomycetes*, and *Pithomyces* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of these genera in this location.

## Air-O-Cell Sampling Results – November 7, 2023

**Sample ID: A1**

**Sample Location: Lower Level | Automotive Classroom**

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Low levels of *Cladosporium* and *Myxomycetes* were present in this sample. Spore counts and volumes were low and did not indicate a source of fungal amplification of this genus in this location.

Based on the results and observations made during the indoor air quality testing on August 2, 2023 at Enfield High school, EnviroMed Services, Inc. has come to the following conclusions and recommendations.

### **Conclusions from September 18<sup>th</sup> to September 22<sup>nd</sup>, 2023**

- The indoor temperature was generally within the recommended ASHRAE standard range at the time of the assessment. Indoor temperatures were often slightly below the recommended ASHRAE range in the morning readings.
- **The relative humidity was generally above the recommended range of the referenced ASHRAE standard of 20 to 60 percent for relative humidity and was also above the EPA recommended range.**
  - **Extended duration of high indoor air levels of relative humidity above 60% may result in mold growth and unacceptable indoor air quality comfort levels.**
- **The average Carbon Dioxide concentration for the five days was between 568 ppm and 1368 ppm, indicating the need for additional building ventilation. The indoor air CO<sub>2</sub> levels were generally more than 707 ppm higher than outdoor CO<sub>2</sub> levels in accordance with ASHRAE standards.**
  - **Additional outdoor air is required to improve comfort parameters for students and staff.**
- Dust concentrations throughout the building were well below the respirable and total PELs of 5 mg/m<sup>3</sup> and 15 mg/m<sup>3</sup>, respectively, indicating no active dust amplification.
- VOC concentrations were generally below the referenced LEED standard of 500 ppb with some exceedances being slightly above the recommended standard of 500 ppb.
- All air mold sample results were within the commonly accepted guideline of 5,000 counts/m<sup>3</sup> for residential buildings (Article in *The Synergist* titled, “Assessment and Sampling Approaches for Indoor Microbiological Assessments”, G. Clark, published November 2001). The airborne spore trap results inside were overall similar to those levels and types of molds found in the outside air from the baselines.



- On Day 1, LL. Automotive Classroom was found to contain significant amplification of *Cladosporium*. These noted molds were not detected in any other sample locations during the testing period.
  - This represents an unacceptable finding requiring mold remediation of this area in the school facility.
- The detected formaldehyde concentrations were well below the OSHA PEL of 0.75 ppm.

**Recommendations**

Relative humidity and carbon dioxide levels throughout the school were found to be above the recommended standards for indoor air quality. In order to decrease the levels for these parameters, additionally outdoor air ventilation is required. This can be achieved by improving the school’s current HVAC system.

EnviroMed Services also identified an exceedance of and an amplification of *Cladosporium* in the LL. Automotive Classroom.

EnviroMed Services recommends that a professional remediation contractor clean all cleanable nonporous surfaces with a disinfecting agent such as Fiberlock ShockWave or equivalent in the affected area of the LL. Automotive Classroom, in addition, EnviroMed Services, Inc. recommends the use of an air scrubbing system to remove all airborne spores. We also recommend the use of a HEPA (High-Efficiency Particulate Air) vacuum. Prior to cleaning, a Negative Air Pressure Containment setup will be required to prevent the contamination of any airborne mold spores during the remediation process. Containment air to be exhausted outside containment area during remediation. The HEPA Sandwich method (vacuum/ clean/ vacuum) is recommended with the continued use of an industrial HEPA Air Unit for at least 24 hours’ post abatement work to further clean the air.

Following the cleaning, EnviroMed recommends a follow-up microbial assessment be performed by a professional industrial hygienist to verify the effectiveness of the cleaning.

There were no sources of fungal amplification or active mold growth in any of the remaining spaces tested throughout Enfield High School during the five (5) days of testing. This school is fit for occupancy as there was no other evidence of mold contamination or presence of toxigenic mold.

Based on the results and observations made during the indoor air quality testing on November 7, 2023, at Enfield High School, EnviroMed Services, Inc. has come to the following conclusions and recommendations.

### **Conclusions from November 7, 2023**

- On September 18, 2023, LL. Automotive Classroom was found to contain significant amplification of Cladosporium. These noted molds were not detected in any other sample locations during that testing period.
  - This represented an unacceptable finding requiring mold remediation of this area in the school facility.
- On November 7, 2023, the airborne spore trap results inside the Automotive Classroom were overall similar to those levels and types of molds found in the outside air from the baseline.

### **Recommendations**

There were no longer sources of fungal amplification or active mold growth in the Automotive Classroom in Enfield High School. This room is fit for occupancy as there was no other evidence of mold contamination or presence of toxigenic mold.

## II. TABLE OF IAQ MEASUREMENTS

*IAQ Readings taken on September 18, 2023*

<b>Location</b>	<b>Temp. (°F)</b>	<b>RH (%)</b>	<b>CO (ppm)</b>	<b>CO<sub>2</sub> (ppm)</b>	<b>CH<sub>2</sub>O (ppm)</b>	<b>VOC (ppm)</b>	<b>Dust Conc. (mg/m<sup>3</sup>)</b>
Outside	67.2	83.0	1.2	558	0.0	0.0	0.000
Lower Level – E Wing Hall	70.0	69.5	0.9	842	0.0	0.246	0.000
LL – Wood Technology	70.0	80.2	1.0	778	0.0	0.129	0.000
LL- Automotive Classroom	70.4	75.9	1.2	899	0.0	0.136	0.000
LL – A Wing Hall	69.8	67.4	1.0	936	0.0	0.152	0.000
LL – Classroom A-006	60.6	63.2	0.8	830	0.0	0.158	0.000
LL – A Wing Lobby Near Exit 23	68.5	67.3	0.8	930	0.0	0.155	0.000
LL – Classroom A-014	68.2	63.6	0.8	756	0.0	0.140	0.000
LL - Mechanical/Storage	71.6	67.0	0.8	658	0.0	0.132	0.000
1 <sup>st</sup> Floor – E Wing Exit 5 Door	70.0	64.4	0.8	824	0.0	0.151	0.015
1 <sup>st</sup> Floor – Class E-129	70.2	64.0	0.9	787	0.0	0.129	0.000
1 <sup>st</sup> Floor – E Wing Common Area	70.5	64.0	0.8	1028	0.0	0.136	0.013
1 <sup>st</sup> Floor – Class E-132	71.2	63.3	0.7	914	0.0	0.118	0.000
1 <sup>st</sup> Floor – A Wing Hall	71.3	62.5	1.0	984	0.0	0.142	0.015
1 <sup>st</sup> Floor – Class A-160	69.6	59.2	1.0	764	0.0	0.113	0.002
1 <sup>st</sup> Floor – Main Lobby	71.1	62.7	0.8	806	0.0	0.129	0.005
1 <sup>st</sup> Floor – Main Office	71.6	60.0	0.9	690	0.0	0.247	0.001
1 <sup>st</sup> Floor - Pupil Services	72.0	63.1	1.0	995	0.0	0.307	0.000
1 <sup>st</sup> Floor – Career Center	72.0	63.6	0.8	985	0.0	0.198	0.000
1 <sup>st</sup> Floor – Class C-123	71.8	71.0	0.9	913	0.0	0.166	0.000
LL – Gym Lobby	71.8	71.0	0.8	789	0.0	0.137	0.000
LL – Gym	71.1	70.3	1.0	755	0.0	0.090	0.000
LL – Weight Room	67.8	65.6	0.8	717	0.0	0.131	0.000
1 <sup>st</sup> Floor – Cafeteria	68.5	72.8	0.7	1130	0.0	0.141	0.000
1 <sup>st</sup> Floor - C Wing Hall	68.6	75.8	0.7	862	0.0	0.115	0.000
1 <sup>st</sup> Floor – D Wing Hall	69.5	76.5	0.7	742	0.0	0.080	0.000
1 <sup>st</sup> Floor – Auditorium	69.3	80.5	0.7	605	0.0	0.049	0.000
1 <sup>st</sup> Floor – Class D-125	69.2	74.9	0.9	964	0.0	0.102	0.000
2 <sup>nd</sup> Floor – A Wing Hall	71.6	67.2	0.9	1174	0.0	0.163	0.000
2 <sup>nd</sup> Floor – Library	71.9	61.0	1.0	777	0.0	0.132	0.000
2 <sup>nd</sup> Floor – Class A-226	71.4	56.5	0.8	1053	0.0	0.154	0.000
2 <sup>nd</sup> Floor – Class A-202	71.6	55.2	0.8	883	0.0	0.158	0.000
2 <sup>nd</sup> Floor – E Wing Hall	71.8	60.1	0.9	985	0.0	0.176	0.000

Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
2 <sup>nd</sup> Floor – Class E-204	70.9	61.2	1.1	753	0.0	0.174	0.000
2 <sup>nd</sup> Floor – Dean’s Office E-212	71.7	60.5	0.7	707	0.0	0.124	0.000
2 <sup>nd</sup> Floor – Class E-235	71.7	62.6	0.8	1083	0.0	0.165	0.000
2 <sup>nd</sup> Floor – E Wing Stairwell	71.3	61.8	0.8	996	0.0	0.154	0.012
3 <sup>rd</sup> Floor – Class E-347	71.5	60.6	0.7	831	0.0	0.160	0.000
3 <sup>rd</sup> Floor – E Wing Hall	72.1	61.6	0.7	1096	0.0	0.174	0.006
3 <sup>rd</sup> Floor – Assistant Principals Office	72.5	60.7	0.8	956	0.0	0.152	0.000
3 <sup>rd</sup> Floor – ENN Room	72.6	58.9	0.8	855	0.0	0.144	0.004
3 <sup>rd</sup> Floor – Class E-328	72.3	60.0	0.8	886	0.0	0.147	0.007
3 <sup>rd</sup> Floor – A Wing Hall	72.8	60.8	0.8	1125	0.0	0.172	0.000
3 <sup>rd</sup> Floor – A Wing Stairwell	74.7	62.9	1.0	1103	0.0	0.141	0.012
3 <sup>rd</sup> Floor – Class A-308	74.8	57.7	1.1	1344	0.0	0.182	0.000
3 <sup>rd</sup> Floor – Class A-306	73.5	57.5	1.2	1229	0.0	0.183	0.000
3 <sup>rd</sup> Floor – Class A-304	72.6	57.8	1.2	1317	0.0	0.183	0.000
Lower Level – E Wing Hall	70.5	63.4	0.8	816	0.0	0.116	0.004
LL – Wood Technology	70.0	75.7	0.7	830	0.0	0.079	0.000
LL- Automotive Classroom	69.8	68.7	0.9	705	0.0	0.125	0.000
LL – A Wing Hall	70.1	65.5	0.7	942	0.0	0.119	0.000
LL – Classroom A-006	68.1	60.9	0.8	694	0.0	0.091	0.000
LL – A Wing Lobby Near Exit 23	68.6	63.9	0.8	768	0.0	0.105	0.000
LL – Classroom A-014	68.8	62.7	0.7	810	0.0	0.100	0.000
LL - Mechanical/Storage	70.5	69.9	0.7	741	0.0	0.111	0.000
1 <sup>st</sup> Floor – E Wing Exit 5 Doors	69.8	62.7	0.7	765	0.0	0.108	0.000
1 <sup>st</sup> Floor – Class E-129	70.3	62.5	0.7	834	0.0	0.110	0.000
1 <sup>st</sup> Floor – E Wing Common Area	70.5	62.5	0.8	832	0.0	0.117	0.007
1 <sup>st</sup> Floor – Class E-132	70.8	62.7	0.7	858	0.0	0.106	0.000
1 <sup>st</sup> Floor – A Wing Hall	71.1	62.3	0.7	1025	0.0	0.141	0.000
1 <sup>st</sup> Floor – Class A-160	71.0	60.9	0.8	871	0.0	0.137	0.000
1 <sup>st</sup> Floor – Main Lobby	71.9	61.7	0.7	850	0.0	0.136	0.000
1 <sup>st</sup> Floor – Main Office	71.7	59.9	0.8	802	0.0	0.127	0.000
1 <sup>st</sup> Floor - Pupil Services	71.7	63.7	0.9	917	0.0	0.133	0.000
1 <sup>st</sup> Floor – Career Center	71.7	64.3	0.9	676	0.0	0.128	0.000
1 <sup>st</sup> Floor – Class C-123	71.5	64.2	0.9	707	0.0	0.120	0.000
LL – Gym Lobby	71.8	72.6	1.0	810	0.0	0.130	0.000
LL – Gym	70.4	71.6	0.8	675	0.0	0.111	0.000

Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
LL – Weight Room	66.5	65.9	0.7	802	0.0	0.130	0.00
1 <sup>st</sup> Floor – Cafeteria	65.4	75.0	0.7	659	0.0	0.168	0.00
1 <sup>st</sup> Floor - C Wing Hall	69.6	81.5	0.7	639	0.0	0.122	0.00
1 <sup>st</sup> Floor – D Wing Hall	70.3	80.8	0.8	625	0.0	0.111	0.00
1 <sup>st</sup> Floor – Auditorium	96.6	79.2	0.8	661	0.0	0.113	0.00
1 <sup>st</sup> Floor – Class D-125	69.9	80.6	0.7	803	0.0	0.134	0.00
2 <sup>nd</sup> Floor – A Wing Hall	72.1	71.4	0.7	787	0.0	0.208	0.00
2 <sup>nd</sup> Floor – Library	71.6	61.1	0.7	897	0.0	0.202	0.00
2 <sup>nd</sup> Floor – Class A-226	71.7	61.8	0.9	929	0.0	0.254	0.00
2 <sup>nd</sup> Floor – Class A-202	72.0	57.2	0.7	867	0.0	0.218	0.00
2 <sup>nd</sup> Floor – E Wing Hall	72.0	61.5	0.8	910	0.0	0.280	0.00
2 <sup>nd</sup> Floor – Class E-204	71.4	60.1	0.7	767	0.0	0.251	0.00
2 <sup>nd</sup> Floor – Dean’s Office E-212	71.2	61.5	0.7	719	0.0	0.305	0.00
2 <sup>nd</sup> Floor – Class E-235	71.4	61.8	0.7	773	0.0	0.265	0.00
2 <sup>nd</sup> Floor – E Wing Stairwell	71.2	60.8	0.7	720	0.0	0.298	0.00
3 <sup>rd</sup> Floor – Class E-347	72.0	61.2	0.8	806	0.0	0.209	0.00
3 <sup>rd</sup> Floor – E Wing Hall	72.1	59.2	0.7	755	0.0	0.297	0.00
3 <sup>rd</sup> Floor – Assistant Principals Office	72.0	61.6	0.7	921	0.0	0.317	0.00
3 <sup>rd</sup> Floor – ENN Room	72.2	58.9	0.7	756	0.0	0.303	0.00
3 <sup>rd</sup> Floor – Class E-328	71.5	58.5	0.7	751	0.0	0.322	0.00
3 <sup>rd</sup> Floor – A Wing Hall	72.4	63.5	0.7	661	0.0	0.303	0.00
3 <sup>rd</sup> Floor – A Wing Stairwell	73.7	59.5	0.7	712	0.0	0.322	0.00
3 <sup>rd</sup> Floor – Class A-306	73.6	54.7	0.8	646	0.0	0.368	0.00
3 <sup>rd</sup> Floor – Class A-304	72.7	55.4	0.8	813	0.0	0.375	0.00

IAQ Readings taken on September 19, 2023

Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
Outside	65.8	65.0	0.7	436	0.0	0.0	0.000
Lower Level – E Wing Hall	70.7	68.4	0.7	835	0.0	0.034	0.000
LL – E Wing Men’s Bathroom	71.0	68.6	0.7	827	0.0	0.047	0.000
LL – E Wing Women’s Bathroom	70.8	68.7	0.8	939	0.0	0.066	0.000
LL – Automotive Class	70.3	70.8	0.8	825	0.0	0.119	0.000
LL – A Wing Hall	70.3	70.8	0.8	995	0.0	0.114	0.000
LL – A Wing Lobby	70.9	68.5	0.7	915	0.0	0.093	0.000
LL – Class A-006	70.6	67.7	0.8	806	0.0	0.098	0.000
LL – Class A-015	70.6	68.7	0.7	878	0.0	0.145	0.000
LL – A Wing Stairwell	70.8	68.0	0.7	837	0.0	0.136	0.000
1 <sup>st</sup> Floor – E Wing Hall	71.3	68.6	0.7	924	0.0	0.176	0.017
1 <sup>st</sup> Floor – Class E-106	71.8	67.6	0.7	992	0.0	0.176	0.033
1 <sup>st</sup> Floor – Class E-132	72.9	66.6	0.7	760	0.0	0.180	0.000
1 <sup>st</sup> Floor – E Wing Common Area	73.1	64.7	0.7	816	0.0	0.204	0.022
1 <sup>st</sup> Floor – Class E-127	72.5	65.3	1.0	767	0.0	0.200	0.012
1 <sup>st</sup> Floor – A Wing Hall	72.4	65.8	0.9	859	0.0	0.208	0.110
1 <sup>st</sup> Floor – Class A-101	72.5	65.3	0.7	821	0.0	0.196	0.000
1 <sup>st</sup> Floor – Class A-160	72.3	65.1	0.7	770	0.0	0.203	0.000
1 <sup>st</sup> Floor – Main Office	72.6	66.7	0.7	841	0.0	0.205	0.000
1 <sup>st</sup> Floor – Main Entry Lobby	72.9	66.1	0.7	939	0.0	0.235	0.000
1 <sup>st</sup> Floor – Pupil Services	73.2	66.1	0.7	879	0.0	0.221	0.000
1 <sup>st</sup> Floor – Grade 12 Office	73.7	66.4	0.7	1095	0.0	0.310	0.000
1 <sup>st</sup> Floor – Guidance Office	73.4	65.1	0.7	844	0.0	0.221	0.000
1 <sup>st</sup> Floor – Class C-123	73.1	65.3	0.9	865	0.0	0.224	0.000
1 <sup>st</sup> Floor – C Wing Hall	72.8	65.3	0.7	707	0.0	0.174	0.000
LL – Gym	70.4	64.8	0.7	630	0.0	0.135	0.000
LL – Gym Office	70.9	66.9	0.7	637	0.0	0.166	0.000
LL – Cardio Room	70.9	71.0	0.7	574	0.0	0.129	0.003
LL – Lobby near Exit 34	70.9	67.1	0.7	675	0.0	0.178	0.000
1 <sup>st</sup> Floor – Cafeteria	72.3	72.4	0.8	1221	0.0	0.264	0.000
1 <sup>st</sup> Floor – Auditorium	70.6	63.3	0.7	613	0.0	0.137	0.000
1 <sup>st</sup> Floor – D Wing	70.0	68.2	0.8	571	0.0	0.132	0.000
1 <sup>st</sup> Floor – Class D-107	70.1	67.6	0.7	855	0.0	0.270	0.000

Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
2 <sup>nd</sup> Floor – Library	71.9	65.8	0.7	855	0.0	0.270	0.000
2 <sup>nd</sup> Floor – A Wing Teacher's Lounge	74.4	65.0	0.7	761	0.0	0.271	0.000
2 <sup>nd</sup> Floor – A Wing Hall	75.3	62.8	0.8	1270	0.0	0.335	0.000
2 <sup>nd</sup> Floor – Class A-211	73.8	61.3	0.9	819	0.0	0.308	0.000
2 <sup>nd</sup> Floor – Class A-206	73.1	61.2	1.0	855	0.0	0.313	0.000
2 <sup>nd</sup> Floor – E Wing Hall	73.1	62.7	0.7	1167	0.0	0.314	0.000
2 <sup>nd</sup> Floor – Class E-204	71.5	61.6	0.7	833	0.0	0.351	0.000
2 <sup>nd</sup> Floor – Class E-205	71.4	62.2	0.7	822	0.0	0.313	0.000
2 <sup>nd</sup> Floor – Class E-234	71.8	62.6	0.7	802	0.0	0.300	0.000
2 <sup>nd</sup> Floor – E Wing Stairwell	72.0	61.8	0.7	821	0.0	0.314	0.000
3 <sup>rd</sup> Floor – Class E-336	72.8	61.6	0.7	838	0.0	0.310	0.000
3 <sup>rd</sup> Floor – E Wing Hall	73.2	61.4	0.8	946	0.0	0.325	0.000
3 <sup>rd</sup> Floor – Class E-317	73.4	61.4	0.8	932	0.0	0.331	0.000
3 <sup>rd</sup> Floor – E Wing Stairwell	74.0	60.4	0.7	931	0.0	0.370	0.000
3 <sup>rd</sup> Floor – A Wing Hall	73.4	60.6	0.7	1026	0.0	0.385	0.000
3 <sup>rd</sup> Floor – Class A-303	72.0	57.6	0.7	733	0.0	0.355	0.000
3 <sup>rd</sup> Floor – Class A-321	72.4	62.0	0.7	1254	0.0	0.430	0.000
3 <sup>rd</sup> Floor – Class A-313	73.1	60.6	0.8	990	0.0	0.434	0.000
Lower Level – E Wing Hall	70.0	64.0	0.7	798	0.0	0.034	0.000
LL – E Wing Men's Bathroom	69.9	63.3	0.7	782	0.0	0.034	0.000
LL – E Wing Women's Bathroom	70.0	65.1	0.7	854	0.0	0.046	0.000
LL – Automotive Class	70.0	64.9	0.7	722	0.0	0.056	0.000
LL – A Wing Hall	69.9	63.3	0.7	908	0.0	0.052	0.000
LL – A Wing Lobby	69.3	62.6	0.8	753	0.0	0.100	0.000
LL – Class A-006	68.7	63.1	0.7	884	0.0	0.114	0.000
LL – Class A-015	69.1	62.9	0.8	772	0.0	0.133	0.000
LL – A Wing Stairwell	69.6	64.2	0.7	874	0.0	0.135	0.000
1 <sup>st</sup> Floor – E Wing Hall	70.1	63.7	0.7	815	0.0	0.173	0.000
1 <sup>st</sup> Floor – Class E-106	70.6	63.7	0.7	881	0.0	0.176	0.000
1 <sup>st</sup> Floor – Class E-132	71.5	63.2	0.7	805	0.0	0.151	0.000
1 <sup>st</sup> Floor – E Wing Common Area	71.7	31.6	0.7	910	0.0	0.185	0.000
1 <sup>st</sup> Floor – Class E-127	71.0	62.2	0.7	822	0.0	0.190	0.000
1 <sup>st</sup> Floor – A Wing Hall	71.1	61.0	0.7	847	0.0	0.224	0.000
1 <sup>st</sup> Floor – Class A-101	71.0	60.8	0.7	896	0.0	0.226	0.000
1 <sup>st</sup> Floor – Class A-160	70.6	61.3	0.7	1026	0.0	0.325	0.000



Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
1 <sup>st</sup> Floor – Main Office	71.1	60.8	0.8	910	0.0	0.226	0.000
1 <sup>st</sup> Floor – Main Entry Lobby	71.6	60.1	0.7	708	0.0	0.240	0.000
1 <sup>st</sup> Floor – Pupil Services	71.9	59.9	0.7	667	0.0	0.239	0.000
1 <sup>st</sup> Floor – Grade 12 Office	72.4	60.5	0.7	917	0.0	0.251	0.000
1 <sup>st</sup> Floor – Guidance Office	71.9	59.6	0.7	771	0.0	0.235	0.000
1 <sup>st</sup> Floor – Class C-123	71.5	59.5	0.7	581	0.0	0.227	0.000
1 <sup>st</sup> Floor – C Wing Hall	71.3	59.3	0.7	586	0.0	0.225	0.000
LL – Gym	71.1	61.0	0.8	588	0.0	0.208	0.000
LL – Gym Office	71.4	60.8	0.7	619	0.0	0.221	0.000
LL – Cardio Room	71.2	70.5	0.7	1085	0.0	0.163	0.000
LL – Lobby near Exit 34	69.3	61.2	0.7	557	0.0	0.232	0.000
1 <sup>st</sup> Floor – Cafeteria	71.2	67.6	0.7	960	0.0	0.265	0.000
1 <sup>st</sup> Floor – Auditorium	71.0	61.9	0.7	574	0.0	0.216	0.000
1 <sup>st</sup> Floor – D Wing	70.4	63.5	0.7	553	0.0	0.216	0.000
1 <sup>st</sup> Floor – Class D-107	70.6	63.1	0.7	552	0.0	0.218	0.000
2 <sup>nd</sup> Floor – Library	70.2	59.5	0.7	622	0.0	0.321	0.000
2 <sup>nd</sup> Floor – A Wing Teacher's Lounge	72.5	58.2	0.7	664	0.0	0.372	0.000
2 <sup>nd</sup> Floor – A Wing Hall	73.2	58.4	0.7	883	0.0	0.394	0.000
2 <sup>nd</sup> Floor – Class A-211	73.5	58.1	0.7	815	0.0	0.397	0.000
2 <sup>nd</sup> Floor – E Wing Hall	72.6	59.3	0.8	847	0.0	0.429	0.000
2 <sup>nd</sup> Floor – Class E-204	72.1	60.2	0.7	742	0.0	0.424	0.000
2 <sup>nd</sup> Floor – Class E-205	71.6	60.1	0.7	767	0.0	0.402	0.000
2 <sup>nd</sup> Floor – Class E-234	71.9	60.3	0.7	704	0.0	0.392	0.000
2 <sup>nd</sup> Floor – E Wing Stairwell	71.6	59.5	0.7	748	0.0	0.407	0.000
3 <sup>rd</sup> Floor – Class E-336	72.3	60.0	0.7	778	0.0	0.200	0.000
3 <sup>rd</sup> Floor – E Wing Hall	72.9	59.3	0.8	755	0.0	0.415	0.000
3 <sup>rd</sup> Floor – Class E-317	72.5	60.0	0.7	835	0.0	0.417	0.000
3 <sup>rd</sup> Floor – E Wing Stairwell	72.9	59.3	0.7	803	0.0	0.423	0.000
3 <sup>rd</sup> Floor – A Wing Hall	72.5	59.3	0.8	791	0.0	0.444	0.000
3 <sup>rd</sup> Floor – Class A-303	72.5	57.7	0.7	715	0.0	0.445	0.000
3 <sup>rd</sup> Floor – Class A-321	72.3	57.9	0.7	703	0.0	0.466	0.000
3 <sup>rd</sup> Floor – Class A-313	74.1	60.5	0.7	855	0.0	0.414	0.000

IAQ Readings taken on September 20, 2023

Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
Outside	64.0	66.5	0.8	553	0.0	0	0.00
LL – E Wing Hall	71.1	59.3	0.8	895	0.0	0.079	0.00
LL – Stair E-ST2	70.4	59.9	0.9	857	0.0	0.064	0.00
LL – Automotive Class	70.1	61.7	1.1	1089	0.0	0.060	0.00
LL – A Wing Hall	69.9	61.9	0.7	1120	0.0	0.041	0.00
LL – Class A-005	70.5	59.9	0.7	850	0.0	0.034	0.00
LL – Class A-014	73.3	56.8	0.8	775	0.0	0.028	0.00
LL – Stair C-ST1	72.3	58.5	1.0	1053	0.0	0.093	0.00
LL – A Wing Lobby Near Exit 23	71.1	58.1	0.9	781	0.0	0.069	0.00
1 <sup>st</sup> Floor – E Wing Hall	71.7	58.9	0.7	941	0.0	0.128	0.00
1 <sup>st</sup> Floor – Class E-104	71.8	57.7	0.7	871	0.0	0.136	0.00
1 <sup>st</sup> Floor – Class E-133	73.3	56.1	0.8	865	0.0	0.171	0.00
1 <sup>st</sup> Floor – Class E-105	72.7	54.7	0.8	825	0.0	0.189	0.00
1 <sup>st</sup> Floor – E Wing Common Area	72.7	56.5	0.7	825	0.0	0.226	0.00
1 <sup>st</sup> Floor – Class E-127	72.5	56.8	0.7	814	0.0	0.232	0.00
1 <sup>st</sup> Floor – A Wing Hall	72.0	57.6	0.8	841	0.0	0.249	0.00
1 <sup>st</sup> Floor – Class A-160	71.6	57.4	0.7	799	0.0	0.266	0.00
1 <sup>st</sup> Floor – Class A-158	71.6	57.8	0.7	813	0.0	0.258	0.00
1 <sup>st</sup> Floor – Main Entrance Lobby	71.7	57.9	0.8	764	0.0	0.251	0.00
1 <sup>st</sup> Floor – Main Office	72.3	57.4	0.7	765	0.0	0.243	0.00
1 <sup>st</sup> Floor – Pupil Services	72.4	56.7	0.7	730	0.0	0.254	0.00
1 <sup>st</sup> Floor – Stair C-ST1	72.8	58.1	0.7	1022	0.0	0.338	0.00
1 <sup>st</sup> Floor – Career Center	72.7	56.9	0.7	751	0.0	0.268	0.00
1 <sup>st</sup> Floor – Class C-123	72.7	56.9	0.7	786	0.0	0.290	0.00
LL – Weight Room	70.1	56.7	0.8	558	0.0	0.240	0.00
LL – Gym Lobby Near Bathroom	70.3	59.9	0.7	758	0.0	0.283	0.00
LL – Cardio Room	70.6	58.1	0.7	638	0.0	0.266	0.00
LL – Gym	71.7	60.0	0.7	719	0.0	0.279	0.00
1 <sup>st</sup> Floor – Cafeteria	71.6	62.2	0.7	937	0.0	0.349	0.00
1 <sup>st</sup> Floor – C Wing Hall	72.5	57.9	0.7	689	0.0	0.298	0.00
1 <sup>st</sup> Floor – Class D-107	71.7	56.4	0.7	602	0.0	0.275	0.00
1 <sup>st</sup> Floor – D Wing Hall	71.0	56.9	0.7	584	0.0	0.265	0.00

1 <sup>st</sup> Floor – Auditorium	69.5	56.5	0.7	555	0.0	0.266	0.00
2 <sup>nd</sup> Floor – Library	73.4	56.7	0.7	1042	0.0	0.473	0.00
2 <sup>nd</sup> Floor – A Wing Hall	73.9	57.5	1.0	1104	0.0	0.512	0.00
2 <sup>nd</sup> Floor – Class A-213	73.9	57.0	0.7	1082	0.0	0.534	0.00
2 <sup>nd</sup> Floor – A Wing Teachers Room	75.1	56.9	0.7	888	0.0	0.480	0.00
2 <sup>nd</sup> Floor – Class A-202	73.6	55.4	0.7	860	0.0	0.488	0.00
2 <sup>nd</sup> Floor – E Wing Hall	73.8	53.8	0.8	735	0.0	0.471	0.00
2 <sup>nd</sup> Floor – Office E-201	73.3	52.4	0.7	766	0.0	0.413	0.00
2 <sup>nd</sup> Floor – Class E-207	73.2	54.5	0.7	820	0.0	0.464	0.00
2 <sup>nd</sup> Floor – Class E-232	73.6	53.9	0.7	806	0.0	0.457	0.00
3 <sup>rd</sup> Floor – Class E-337	74.5	52.3	0.7	773	0.0	0.518	0.00
3 <sup>rd</sup> Floor – E Wing Hall	74.5	52.6	0.7	828	0.0	0.503	0.00
3 <sup>rd</sup> Floor – Stairwell E Wing	74.7	53.5	0.7	898	0.0	0.485	0.00
3 <sup>rd</sup> Floor – Class E-333	74.7	52.6	0.7	806	0.0	0.503	0.00
3 <sup>rd</sup> Floor – Class A-301	74.0	51.0	0.7	662	0.0	0.479	0.00
3 <sup>rd</sup> Floor – A Wing Hall	71.6	53.1	0.7	839	0.0	0.519	0.00
3 <sup>rd</sup> Floor – Class A-323	70.7	52.6	0.7	800	0.0	0.535	0.00
LL – E Wing Hall	70.4	56.0	0.7	796	0.0	0.024	0.00
LL – Stair E-ST2	70.6	56.2	0.7	797	0.0	0.530	0.00
LL – Automotive Class	70.4	55.4	0.7	737	0.0	0.076	0.00
LL – A Wing Hall	70.3	57.1	0.6	704	0.0	0.080	0.00
LL – Class A-005	70.4	57.0	0.7	802	0.0	0.087	0.00
LL – Class A-014	70.3	57.7	0.7	814	0.0	0.099	0.00
LL – Stair C-ST1	71.5	56.9	0.7	796	0.0	0.100	0.00
LL – A Wing Lobby Near Exit 23	70.9	56.3	0.7	812	0.0	0.120	0.00
1 <sup>st</sup> Floor – E Wing Hall	71.2	57.7	0.7	1033	0.0	0.192	0.00
1 <sup>st</sup> Floor – Class E-104	71.9	55.4	0.7	816	0.0	0.173	0.00
1 <sup>st</sup> Floor – Class E-133	72.0	54.5	0.7	815	0.0	0.237	0.00
1 <sup>st</sup> Floor – Class E-105	71.8	55.5	0.7	825	0.0	0.200	0.00
1 <sup>st</sup> Floor – E Wing Common Area	71.8	54.8	0.7	785	0.0	0.215	0.00
1 <sup>st</sup> Floor – Class E-127	71.7	55.5	0.7	835	0.0	0.216	0.00
1 <sup>st</sup> Floor – A Wing Hall	71.4	56.6	0.7	802	0.0	0.213	0.00
1 <sup>st</sup> Floor – Class A-160	70.7	54.9	0.7	727	0.0	0.209	0.00
1 <sup>st</sup> Floor – Class A-158	70.3	53.5	0.7	773	0.0	0.212	0.00
1 <sup>st</sup> Floor – Main Entrance Lobby	71.5	53.2	0.7	865	0.0	0.206	0.00
1 <sup>st</sup> Floor – Main Office	72.0	52.5	0.7	760	0.0	0.216	0.00
1 <sup>st</sup> Floor Pupil Services	72.1	52.8	0.7	743	0.0	0.189	0.00

1 <sup>st</sup> Floor – Stair E-ST1	72.3	53.2	0.7	679	0.0	0.186	0.00
1 <sup>st</sup> Floor – Career Center	72.1	52.5	0.7	641	0.0	0.198	0.00
1 <sup>st</sup> Floor – Class C-123	71.8	52.8	0.7	674	0.0	0.199	0.00
LL – Weight Room	70.0	56.0	0.8	630	0.0	0.203	0.00
LL – Gym Lobby Near B	69.4	53.0	0.8	616	0.0	0.198	0.00
LL – Cardio Room	69.6	64.5	0.7	1149	0.0	0.125	0.00
LL – Gym	69.6	54.1	0.6	652	0.0	0.208	0.00
1 <sup>st</sup> Floor – Cafeteria	71.1	62.5	0.7	1343	0.0	0.269	0.00
1 <sup>st</sup> Floor – C Wing Hall	71.9	54.4	0.7	709	0.0	0.258	0.00
1 <sup>st</sup> Floor – Class D-102	70.7	51.5	0.7	715	0.0	0.222	0.00
1 <sup>st</sup> Floor – D Wing Hall	72.7	53.6	0.7	720	0.0	0.228	0.00
1 <sup>st</sup> Floor – Auditorium	70.9	55.0	0.7	815	0.0	0.210	0.00
2 <sup>nd</sup> Floor – Library	72.5	55.0	0.7	976	0.0	0.350	0.00
2 <sup>nd</sup> Floor – A Wing Hall	72.5	55.0	0.7	1003	0.0	0.376	0.00
2 <sup>nd</sup> Floor – Class A-213	72.6	55.5	0.7	976	0.0	0.314	0.00
2 <sup>nd</sup> Floor – A Wing Teachers Room	73.3	54.5	0.7	930	0.0	0.353	0.00
2 <sup>nd</sup> Floor – Class A-202	72.7	55.9	0.7	1174	0.0	0.395	0.00
2 <sup>nd</sup> Floor – E Wing Hall	72.9	53.1	0.7	901	0.0	0.370	0.00
2 <sup>nd</sup> Floor – Office E-201	72.3	49.7	0.7	700	0.0	0.317	0.00
2 <sup>nd</sup> Floor – Class E-207	72.2	51.2	0.7	768	0.0	0.331	0.00
2 <sup>nd</sup> Floor – Class E-332	73.2	51.1	0.8	738	0.0	0.330	0.00
3 <sup>rd</sup> Floor – Class E-331	73.1	54.5	0.7	998	0.0	0.423	0.00
3 <sup>rd</sup> Floor – E Wing Hall	73.2	50.8	0.7	811	0.0	0.392	0.00

*IAQ Readings taken on September 21, 2023*

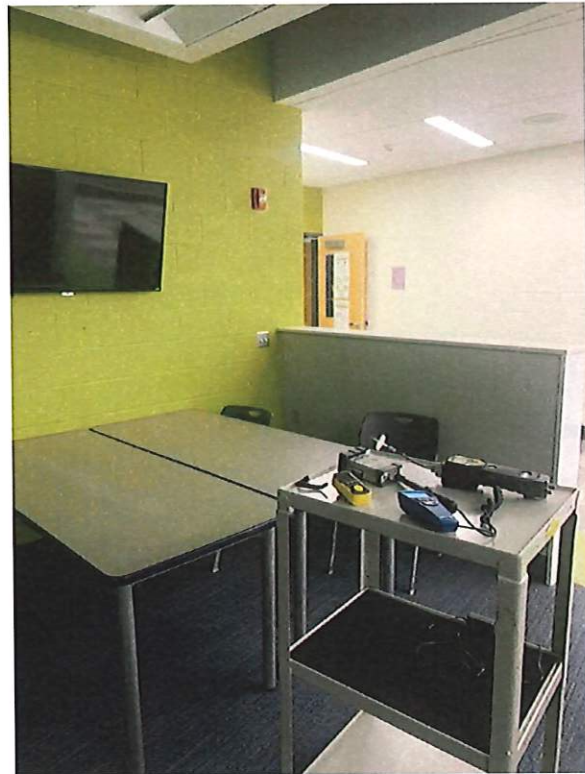
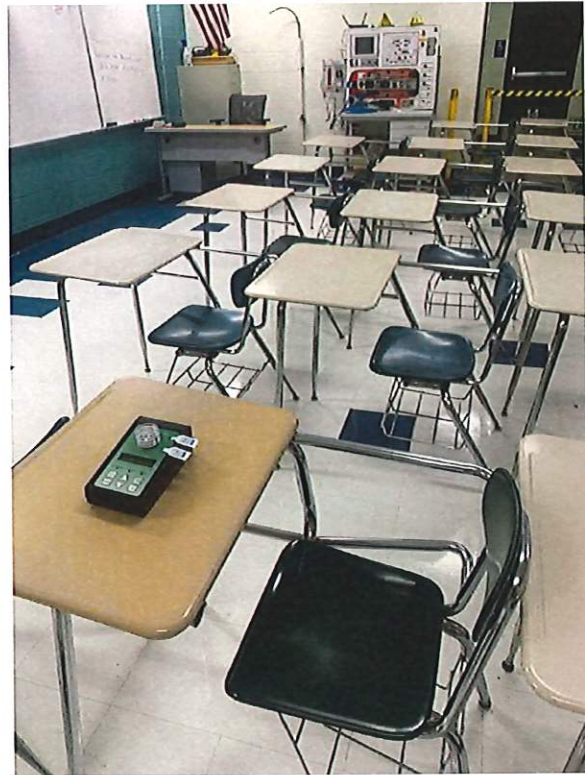
Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
Outside	49.9	80.2	0.0	572	0.0	0.0	0.0
Classroom A106	70.0	57.8	1.0	748	0.0	.101	0.0
1 <sup>st</sup> Floor Lobby Area	70.8	57.2	0.9	794	0.0	.092	0.0
A Wing Hallway	71.3	57.3	1.2	1009	0.0	0.178	0.0
Classroom E104	71.4	56.6	0.9	887	0.0	0.145	0.0
Stairwell E-ST2 1	71.9	57.4	1.1	1054	0.0	0.214	0.0
Classroom E121	72.4	57.0	0.8	1027	0.0	0.256	0.0
E Wing Hallway	72.9	55.8	1.2	962	0.0	0.273	0.0
First Floor Exit 5	72.8	55.6	1.2	936	0.0	0.269	0.0
Classroom E132	73.3	55.5	1.1	947	0.0	.272	0.0
Front Office	72.5	55.4	1.2	862	0.0	.268	0.0
Pupil Services Room 115	73.3	54.9	1.1	915	0.0	.302	0.0
A Wing Hall, Outside Counseling	73.3	54.2	1.2	936	0.0	0.300	0.0
Cafeteria	72.9	55.4	1.1	734	0.0	0.287	0.0
D Wing Hall – Ticket Booth	71.3	52.1	1.2	648	0.0	0.238	0.0
Auditorium	69.8	53.1	1.3	641	0.0	0.226	0.0
D107 – Band	69.9	57.5	0.8	637	0.0	0.191	0.0
D Wing Hall – Drama Closet	70.1	57.5	1.0	641	0.0	0.200	0.0
Gymnasium	70.7	56.6	1.0	619	0.0	0.206	0.0
Gym Office	70.9	56.7	1.1	592	0.0	0.201	0.0
Gym Hallway	70.5	56.0	1.3	651	0.0	0.242	0.0
Weight Room	69.2	58.1	1.1	641	0.0	0.218	0.0
Classroom A160	71.6	57.3	0.9	846	0.0	0.313	0.0
Auto Lab	71.0	56.2	1.2	818	0.0	0.348	0.0
Stair E-ST2 L	71.4	58.0	1.2	872	0.0	0.322	0.0
Classroom A005	74.2	56.4	0.9	940	0.0	0.341	0.0
A Wing Lower-Level Hallway	73.4	54.8	1.3	958	0.0	0.349	0.0
Classroom A015	72.3	55.6	1.3	886	0.0	0.346	0.0
Stair C-ST1 L	72.5	56.2	1.2	1101	0.0	0.363	0.0
Library	73.8	56.0	1.3	1185	0.0	0.466	0.0
A Wing Hallway Floor 2	73.9	57.5	1.2	1255	0.0	0.474	0.0
Classroom A212	74.4	56.3	1.2	1153	0.0	0.493	0.0
Classroom A206	74.2	55.1	1.3	1099	0.0	0.444	0.0

Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
A wing Hallway near Elevator 2 <sup>nd</sup> Floor	74.5	55.7	1.2	949	0.0	0.414	0.0
Room E212	74.1	53.3	1.2	780	0.0	0.395	0.0
E Wing Hallway Floor 2	74.1	56.0	1.2	954	0.0	0.445	0.0
Classroom E224	73.5	53.7	1.3	859	0.0	0.395	0.0
Stair E-ST1 2	74.0	55.0	1.2	983	0.0	0.411	0.0
Assistant Principals Office 3 <sup>rd</sup> Floor	74.1	52.3	1.3	651	0.0	0.397	0.0
Classroom E334	74.4	55.2	1.2	940	0.0	0.457	0.0
Classroom E330	74.3	54.0	1.2	895	0.0	0.464	0.0
A Wing Hallway 3 <sup>rd</sup> Floor	74.8	54.2	1.2	990	0.0	0.437	0.0
Classroom A234	74.7	58.2	1.3	1270	0.0	0.566	0.0
Outside	51.1	80.6	0.0	581	0.0	0.0	0.0
Classroom A106	71.4	57.8	0.7	881	0.0	0.133	0.0
1 <sup>st</sup> Floor Lobby Area	72.0	57.3	0.7	876	0.0	0.135	0.0
A Wing Hallway	72.5	53.0	0.9	615	0.0	0.131	0.0
Classroom E104	72.4	52.2	0.9	894	0.0	0.333	0.0
Stairwell E-ST2 1	72.8	54.4	0.8	1030	0.0	0.326	0.0
Classroom E121	72.6	53.5	1.2	1056	0.0	0.355	0.0
E Wing Hallway	72.5	52.7	0.9	937	0.0	0.344	0.0
First Floor Exit 5	72.4	52.2	0.8	835	0.0	0.357	0.0
Classroom E132	72.6	51.4	0.8	753	0.0	0.349	0.0
Front Office	72.5	55.6	0.7	760	0.0	0.148	0.0
Pupil Services Room 115	72.7	54.0	1.1	648	0.0	0.131	0.0
A Wing Hall, Outside Counseling	72.0	57.3	0.7	955	0.0	0.244	0.0
Cafeteria	72.9	63.5	1.3	1566	0.0	0.267	0.0
D Wing Hall – Ticket Booth	72.9	52.4	1.1	680	0.0	0.169	0.0
Auditorium	71.6	50.5	0.9	578	0.0	0.173	0.0
D107 – Band	70.6	53.8	0.8	612	0.0	0.176	0.0
D Wing Hall – Drama Closet	70.6	54.0	0.9	621	0.0	0.171	0.0
Gymnasium	71.3	52.5	1.0	590	0.0	0.214	0.0
Gym Office	71.7	52.2	0.7	627	0.0	0.216	0.0
Gym Hallway	71.1	52.6	0.8	637	0.0	0.207	0.0
Weight Room	69.2	54.1	0.7	556	0.0	0.203	0.0
Classroom A160	71.5	53.2	1.1	880	0.0	0.344	0.0
Auto Lab	72.2	51.6	1.1	703	0.0	0.345	0.0
Stair E-ST2 L	73.3	51.1	0.9	904	0.0	0.414	0.0

Location	Temp. (°F)	RH (%)	CO (ppm)	CO <sub>2</sub> (ppm)	CH <sub>2</sub> O (ppm)	VOC (ppm)	Dust Conc. (mg/m <sup>3</sup> )
Classroom A005	71.1	52.7	0.7	840	0.0	0.358	0.0
A Wing Lower-Level Hall	70.8	54.7	0.7	1033	0.0	0.354	0.0
Classroom A015	71.4	54.3	0.7	942	0.0	0.370	0.0
Stair C-ST1 L	72.6	53.1	0.7	795	0.0	0.350	0.0
Library	72.6	52.1	0.9	870	0.0	0.434	0.0
A Wing Hallway Floor 2	73.7	53.3	0.8	1168	0.0	0.455	0.0
Classroom A212	73.1	55.0	1.1	1201	0.0	0.424	0.0
Classroom A206	73.5	52.8	1.1	1109	0.0	0.453	0.0
A wing Hallway near Elevator 2 <sup>nd</sup> Floor	73.3	49.2	0.8	851	0.0	0.437	0.0
Room E212	72.2	49.6	1.0	805	0.0	0.543	0.0
E Wing Hallway Floor 2	72.0	49.3	0.9	883	0.0	0.451	0.0
Classroom E224	72.5	49.6	0.9	807	0.0	0.432	0.0
Stair E-ST1 2	73.1	49.7	0.8	992	0.0	0.422	0.0
Assistant Principals Office 3 <sup>rd</sup> Floor	73.1	49.1	0.7	795	0.0	0.443	0.0
Classroom E334	71.6	47.0	0.8	672	0.0	0.436	0.0
Classroom E330	72.1	46.9	0.7	602	0.0	0.404	0.0
A Wing Hallway 3 <sup>rd</sup> Floor	73.3	51.1	0.9	944	0.0	0.434	0.0
Classroom A234	72.8	50.7	1.1	807	0.0	0.454	0.0

### **III. PHOTOGRAPHS**





*Figure 1. A1 Exterior Baseline (Top Left), A2 Automotive Classroom (Top Right), A3 Wing Exit Near Paring Lot (Bottom Left) and A4 E Wing Common Area (Bottom Right).*

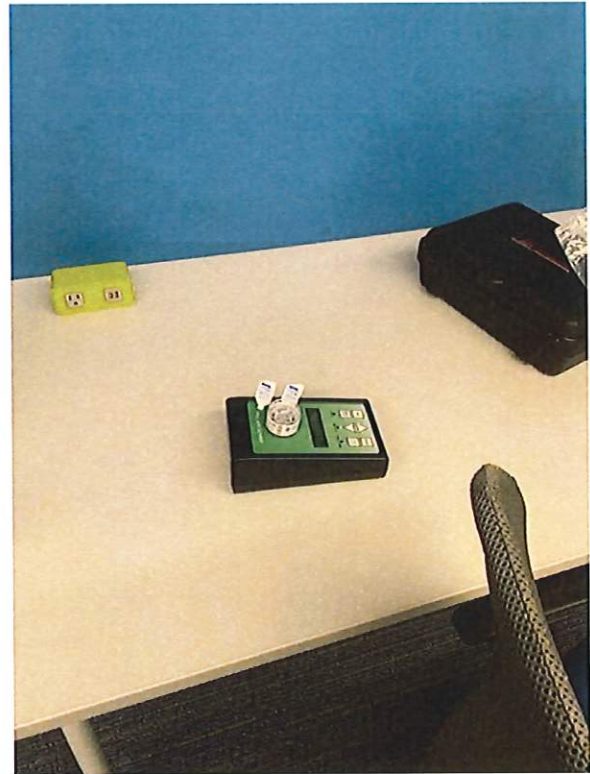
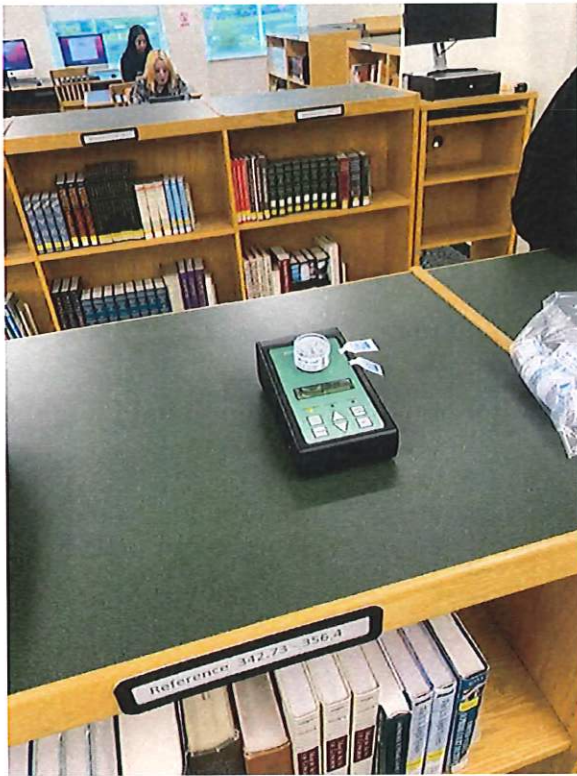
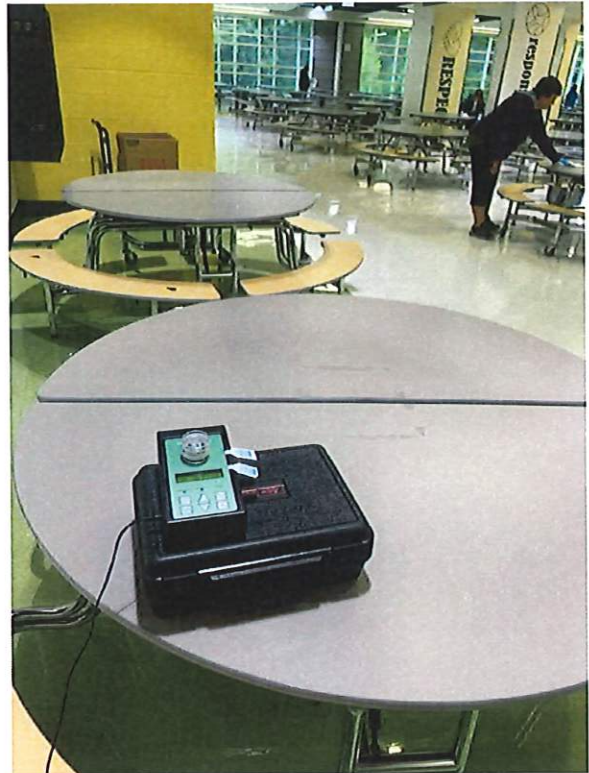


Figure 2. A5 Main Entrance Lobby (Top Left), A6 Cafeteria (Top Right), A7 Library (Bottom Left), A8 9<sup>th</sup> Grade Deans Office (Bottom Right)

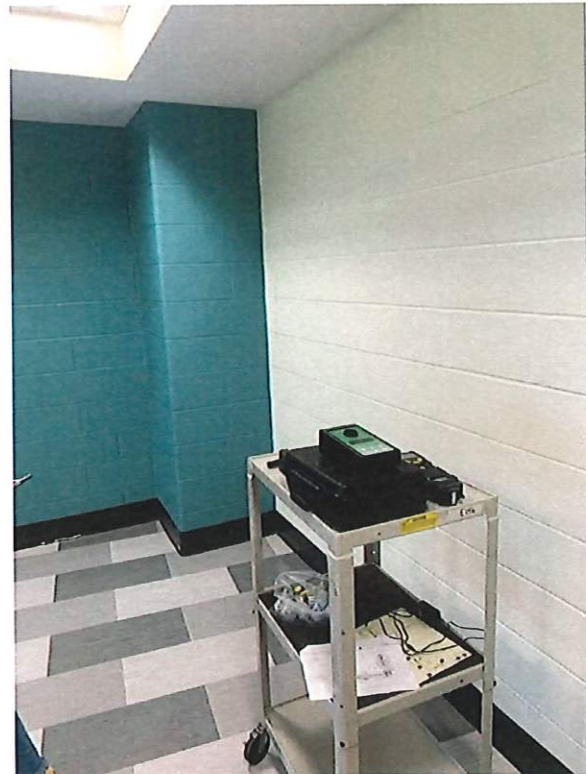
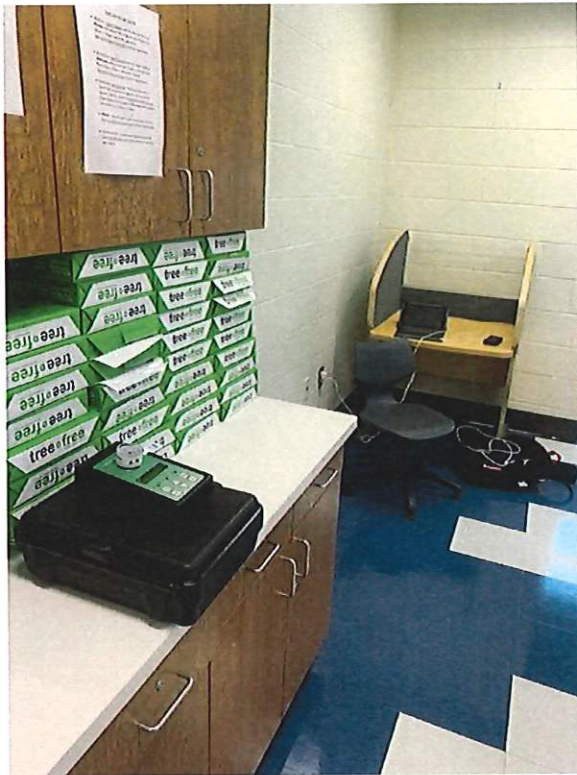


Figure 3. A9 Room E347 (Top Left) and A10 Hallway Near Stair Well 3<sup>rd</sup> Floor (Top Right), A11 Exterior Baseline (Bottom Left), and A12 LL. E Wing Hall Lobby Area (Bottom Right)

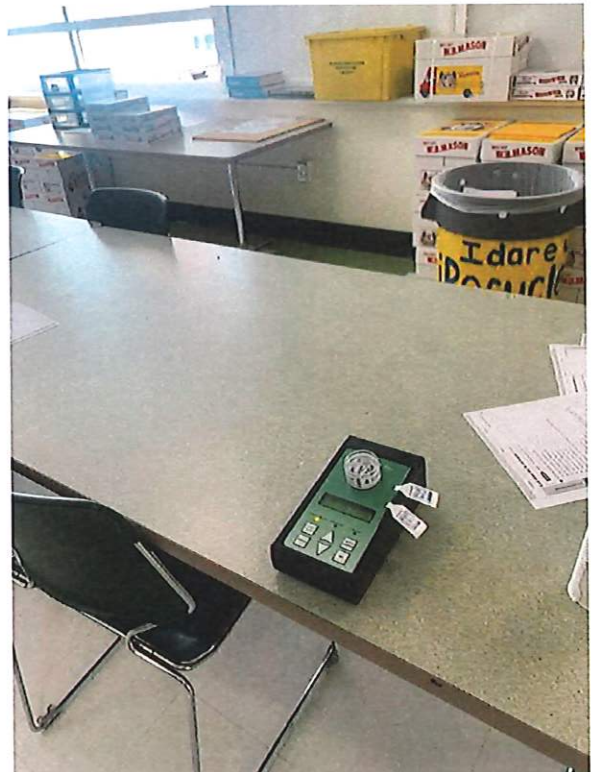
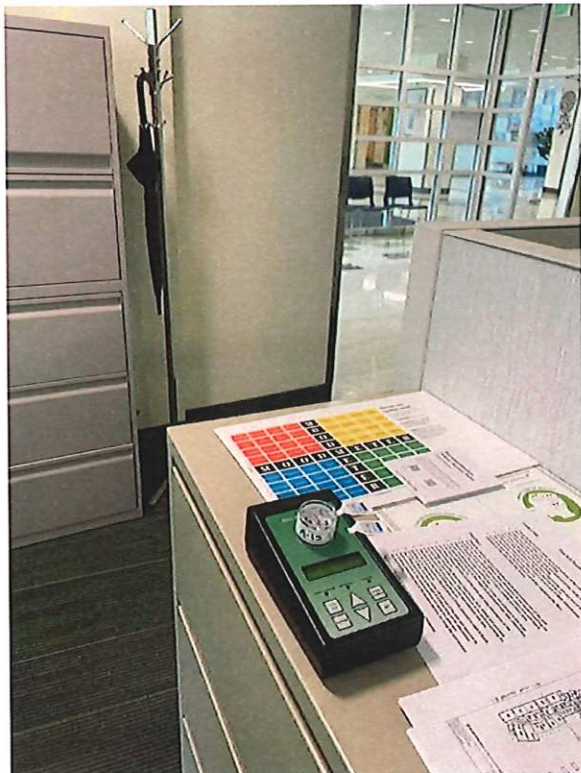


Figure 4. A13 LL. Classroom A006 (Top Left), and A14 First Floor E132 (Top Right). A15 1<sup>st</sup> Floor Main Office (Bottom Left), A17 2<sup>nd</sup> Floor Teachers Lounge.

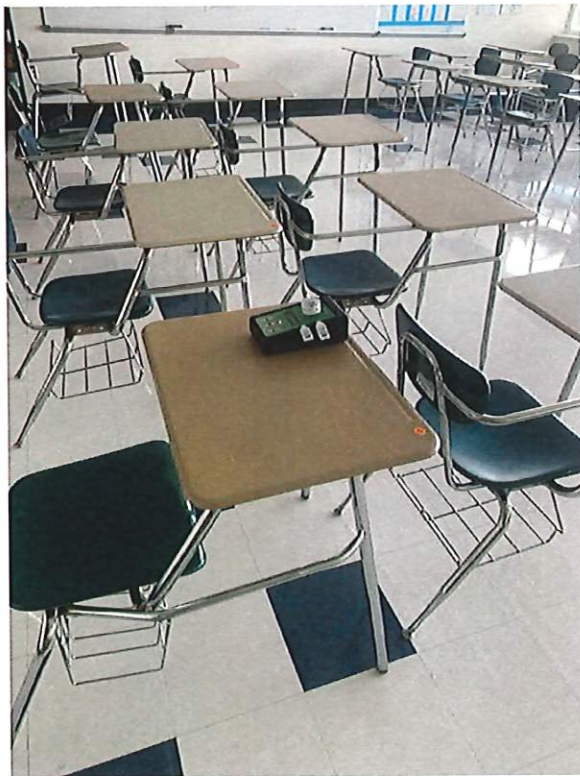


Figure 5. A18 Class E204 (Top Left), A19 E336 (Top Right), and A20 Class A303 (Bottom Left)

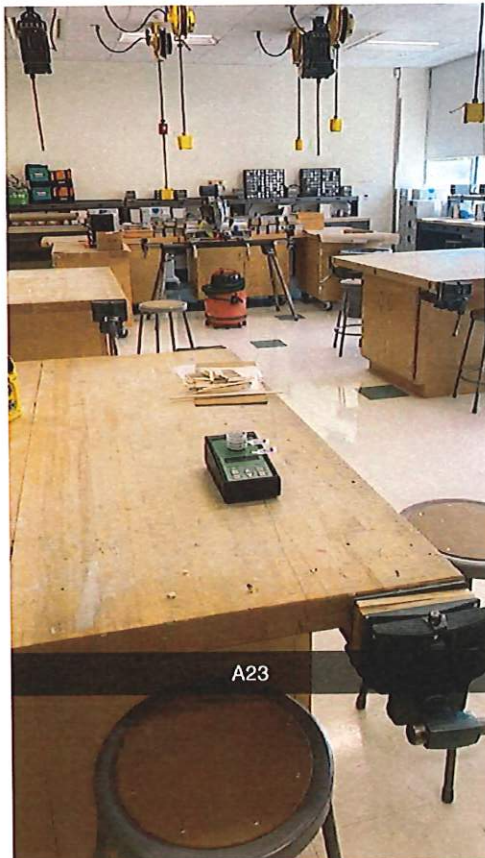
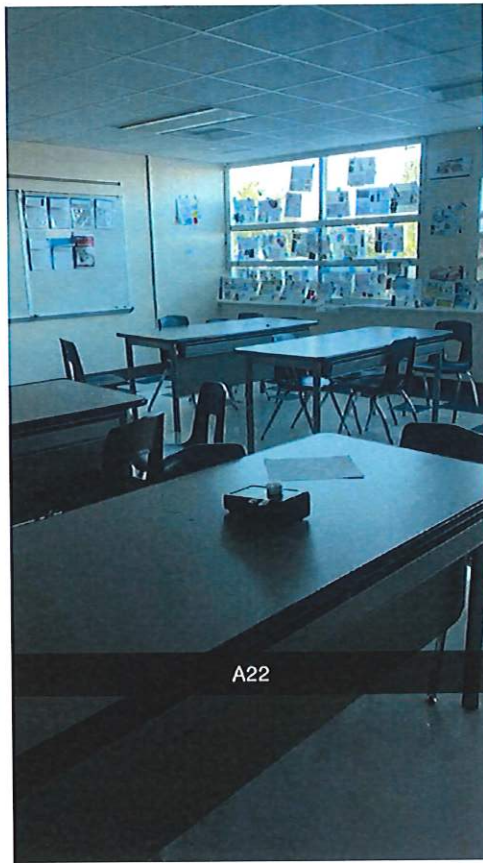


Figure 6. A21 Outdoor Baseline (Top Left), A22 Class A014 (Top Left), A23 Floor Class E133, A24 Pupil Services

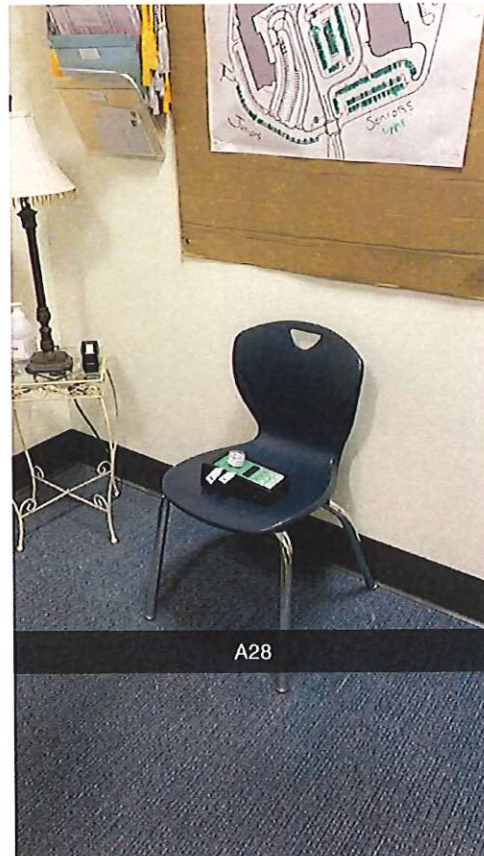
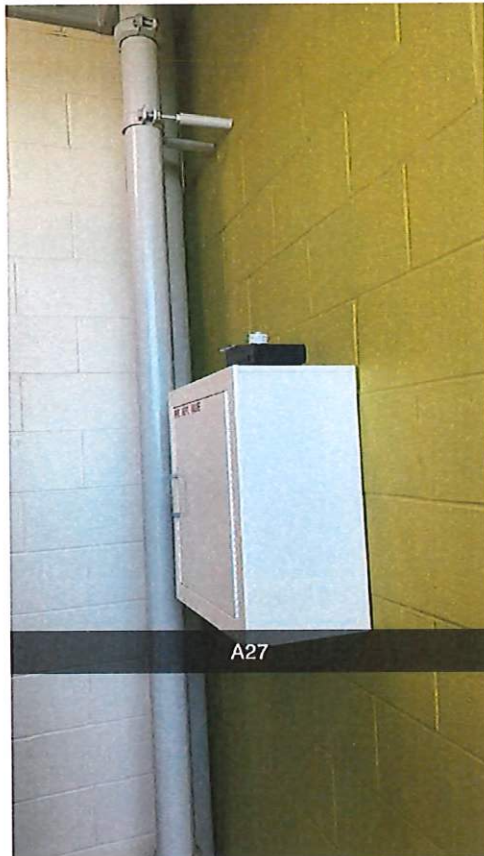
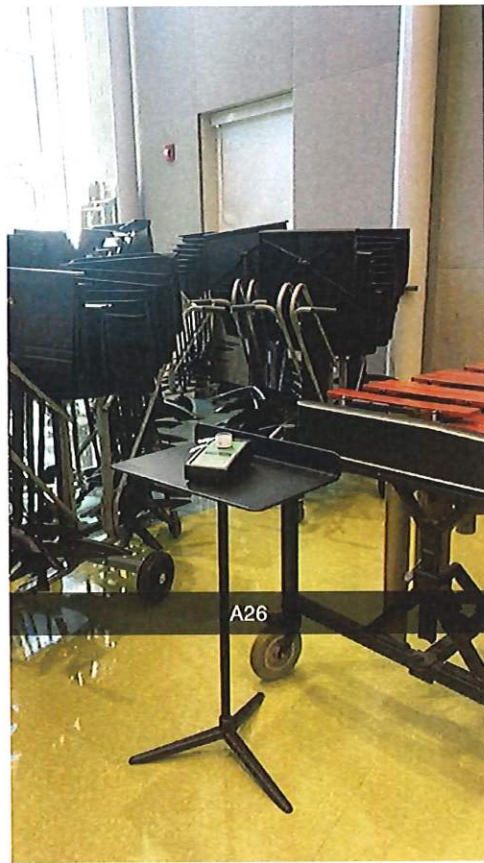
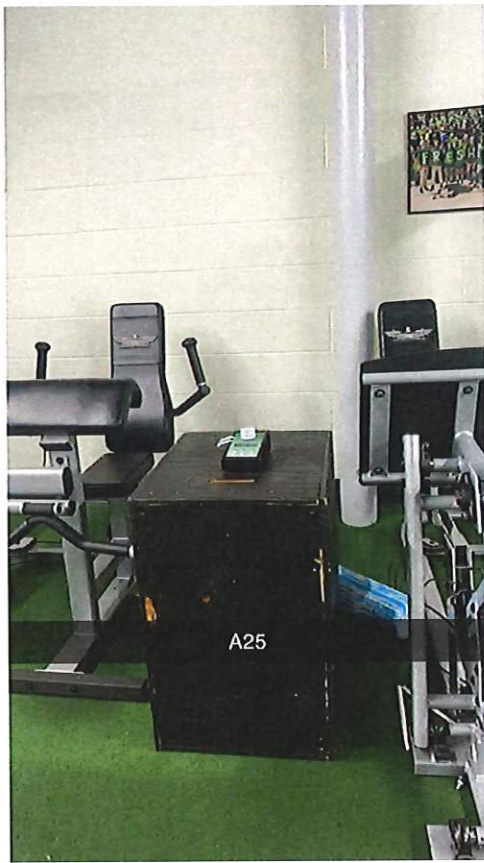


Figure 7. A25 Weight Room (Top Left), A26 Class D107 (Top Left), A27 Stair CST1 (Bottom Left), and Office E201 (Bottom Right).

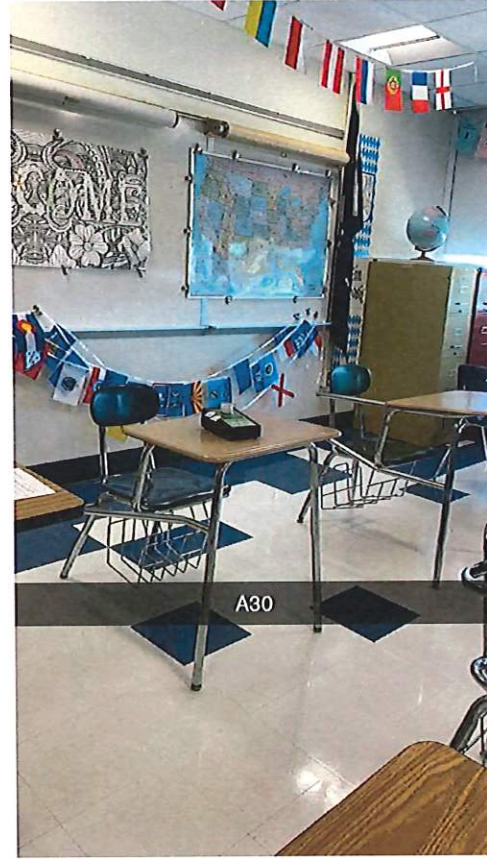
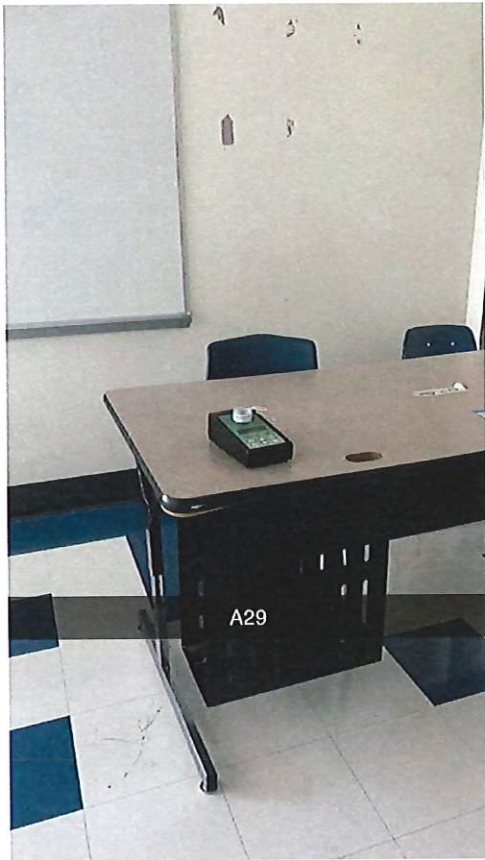


Figure 8. A29 Class E337 (Left) and A30 Class A301 (Right).



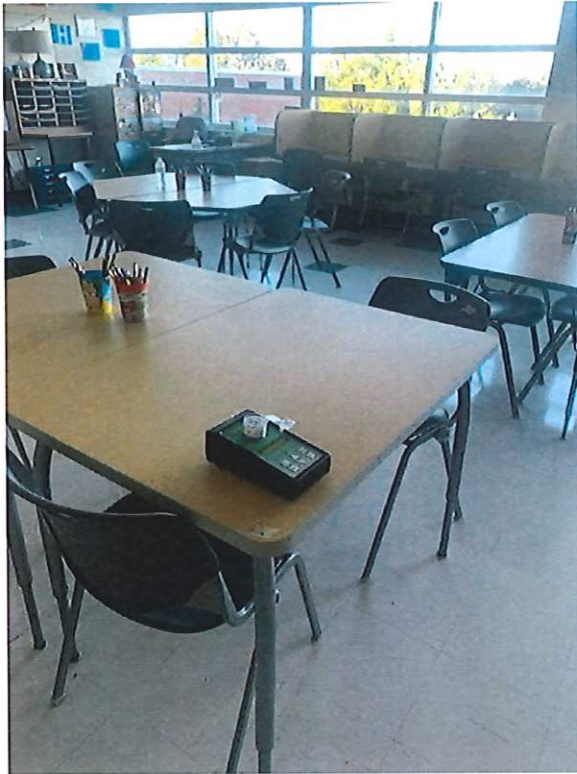


Figure 9. A31 Classroom A106 (Top Left), A32 E Wing Stair EST2 (Top Right), A33 Cafeteria (Bottom Left), and A34 Gym Office (Bottom Right)

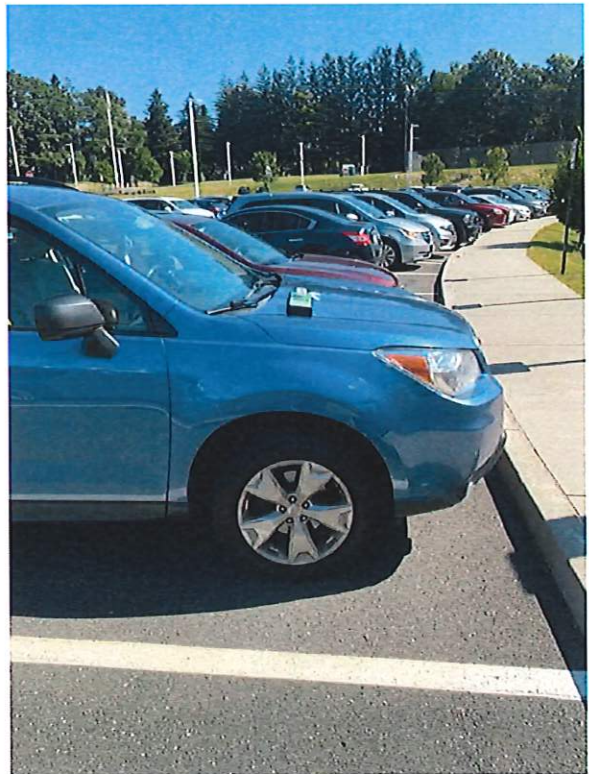
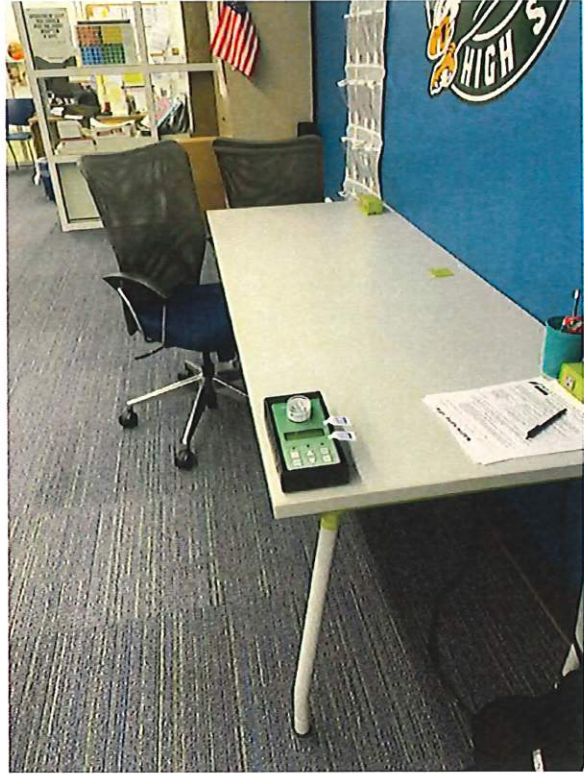


Figure 10. A35 Preschool A005 (Top Left), A36 Room E212 (Top Right), A38 3<sup>rd</sup> Floor Assistant Principals (Bottom Left), and A-40 Exterior Baseline (Bottom Right).

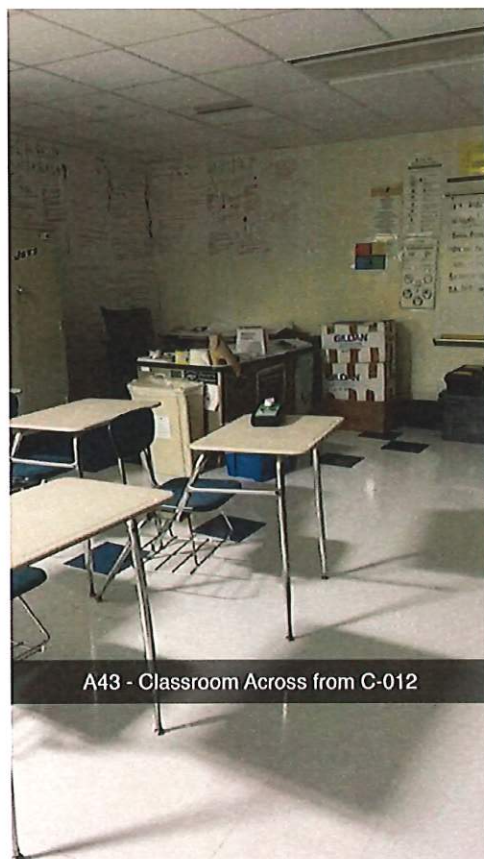


Figure 11. A41 LL. Men's Bathroom Near Exit 10 (Top Left), A42 Cafeteria/Kitchen (Top Right), A43 Classroom across from C012 (Bottom Right), A44 Ticket Booth Office (Bottom Left).



Figure 12. A47 Classroom A226 (Left) and A49 Elevator (Right)



Figure 13. Automotive Classroom and location of clearance sample A1. **Figure from re-test taken on November 7, 2023.**