Pembroke Public Schools

Air Quality/Mold Overview

Overview

- Different types of HVAC systems at our schools
- Timeline of concerns at Hobomock
- Reports
- Results
- Recommendations
- Remediation steps taken to date
- Next Steps

3 Different Types of HVAC Systems in our Schools

- Univent (Unit Vent) System - North Pembroke, Bryantville, PCMS
  - Heating and ventilation system designed to provide both fresh outside air and temperature control to a single room or zone, commonly used in classrooms, where it's mounted on an exterior wall to bring in outside air and deliver tempered air to the space; essentially acting as a self-contained heating and ventilation unit for an individual room. In addition classroom windows can be opened to introduce additional ventilation and air.
- Closed Air System - PHS
  - Outside air is introduced through roof top units, then cooled or heated through a cool system. The system is considered closed because the classroom windows at PHS do not open, the temperature and airflow is completely controlled by the HVAC system
- Air Handler System - Hobomock
  - Takes in outside air, conditioning it with heating or cooling, filtering it, and then distributing the conditioned air throughout the building through a network of ducts, ensuring comfortable temperatures and proper ventilation in classrooms and other spaces, while maintaining good indoor air quality by removing pollutants and managing humidity levels

Hobomock's Air Handling System

- 6 Roof Top Units:
  - Air Handler Unit #1 (AHU-1) - Kindergarten , Grades 1 & 2
  - AHU-2 - Grades 4,5,6 Art Room & Science Lab
  - AHU-3 - Gymnasium
  - AHU 4 - Cafeteria, Kitchen, Ensemble Room
  - AHU 7 - Music Room, Teacher's Room, Atrium
  - Air Conditioning Unit 1 (ACU-1) - Library & Main Office
- Each Unit is a double filter Set-up
  - MERV - 8/10 Filter changed every 4 months
  - MERV -12/13 Filters changed annually or as needed
- Each classroom has on average 2 supply vents and 2 exhaust (return) vents.

Supply Vent

Return Vent

TIMELINE - August 2003- December 2020

August 2003

Press Release regarding mold damage at Hobomock following a moisture concern in certain areas of the building

November 2016

Limited Air Quality Testing Done by PMEC in response to a musty odor in areas of the building

November 2017

The District partnered with the Department of Public Health Indoor Air Quality Testing to do a full assessment of the building (done for all 5 buildings)

December 2020

As part of the efforts to return students to classrooms during COVID a Building Health Assessment was conducted by Pure Air (done on all 5 buildings)

Experts - Roles/Certifications

Lisa Cullity - Pembroke Licensed Health Agent

Inspections:
Performing routine inspections of food establishments, swimming pools, housing units, septic systems, and other public places to identify potential health risks and ensure compliance with regulations.
Complaint investigations:
Investigating complaints related to nuisance conditions, unsanitary living situations, or potential disease outbreaks.
Enforcement actions:
Issuing citations, orders to correct violations, and potentially pursuing legal action against individuals or businesses not complying with health regulations.
Disease surveillance:
Monitoring and reporting cases of communicable diseases to the appropriate health authorities
Public education:
Providing health information and educational materials to the community on important public health issues
Emergency preparedness:
Assisting in public health response during emergencies or outbreaks

Education

- A bachelor's degree in public health, health administration, social work, or a related field
- A graduate degree in public health
- A bachelor's degree with at least 30 semester hours in public health-related disciplines

Experience

- Three to five years of experience in public health or a related field
- Two years of progressively responsible work in public health
- Three or more years of professional experience in public health or social services

Other requirements

- A valid Massachusetts driver's license
- Registration as a Sanitarian by the Massachusetts Board of Registration of Sanitarians
- Certification from DEP as a licensed Soil Evaluator
- Membership in the MA Public Health Association or American Public Health Association
- Completion of a course on public health law
- Demonstrated Department of Environmental Protection coursework on state environmental code or public health topics

Paul Matuszko (PMEC) - District's Air Quality Expert

- • Certified Industrial Hygienist (CIH), American Board of Industrial Hygiene
- • Certified Indoor Environmental Consultant (CIEC), American Council for Accredited Certification
- • Construction Documents Technologist, (CDT), Construction Specifications Institute
- • Asbestos Inspector, Massachusetts Division of Labor Standards (DLS)
- • Asbestos Management Planner, Massachusetts DLS
- • Asbestos Project Designer, Massachusetts DLS
- • Licensed Asbestos Project Monitor, Massachusetts DLS

Scott Fulmer - MTA Health and Safety Expert

- National Organization of Remediators and Microbial Inspectors NORMI

November 2016 PMEC Testing (Full Report)

Areas Inspected/Tested: Rooms 130, 140, 150, 160 Kindergarten and Third Grade Hallways

Observations:

- No Visible suspect surface mold growth was identified on exposed surfaces within classrooms 130, 140, 150 and 160
- No evidence of current or previous water infiltration or chemical related storage issues within inspected areas.
- Ceiling vent grills throughout the wing were observed to have a build up of dust on and inside vent surfaces. Ceiling HVAC supply vents were observed to be generally clean and free from accumulated dust and debris.
- Room 130 - had a noticeable musty/moldy like odor detected in the back of the room in the area above the ceiling supply diffuser. Inspection of the ceiling plenum space above detected no odor
- Room 140 - No odors detected. Classroom had been recently disinfected and a chemical cleaning smell still existed.
- Rooms 150 & 160 - No odors detected.
- Kindergarten Hallway - No odors detected. Representative areas above the ceiling also contained no odors. Dried water spots were observed on steel beams and ceiling deck around un-insulated fire sprinkler piping. It is believed condensation develops in the summer months causing spotting.
- 3rd Grade Hallway: -No visible surface mold growth was identified on exposed surfaces. No odors detected. Similar water spotting from fire sprinkler piping observed on steel beams and ceiling deck.

Sampling Results

Table 1
Spore Trap Microbial Analysis Results
Hobomock Elementary School

Sample #	Sample Location	Total Fungi	Specific Species & levels
22633440 (01)	Classroom 140 at back left side desk	26 S/m^3	Ascospores – 13 S/m^3 Basidiospores - 13 S/m^3
22633411 (02)	Classroom 130 at back side desk	13 S/m^3	Basidiospores - 13 S/m^3
22633418 (03)	Classroom 150 at back side table	40 S/m^3	Aspergillus/Penicillium – 13 S/m^3 Basidiospores - 13 S/m^3
22633423 (04)	3rd Grade Hallway	13 S/m^3	Ascospores – 13 S/m^3
22626885 (05) (Comparison sample)	Outside ambient air (at street)	453 S/m^3	Alternaria – 13 S/m^3 Ascospores – 67 S/m^3 Basidiospores – 267 S/m^3 Bipolaris – 13 S/m^3 Cladosporium – 40 S/ m^3 Myxomycetes – 40 S/m^3 Epicoccum – 13 S/m^3

Table 2
Bio-Tape Lift Analysis Result
Hobomock Elementary School

Sample #	Sample Location	Mold Spore Estimate	Mycelial Estimate (current active growth)
193-01T	3rd Grade Hallway – Above ceiling tile on steel beam with suspect dried water spotting	No Fungi Detected	Nofungi/ mycelial detected

Table 3
General IAQ Parameter Measurements

Sample Location	Time Sampled	Temp (°F)	RH (%)	CO_2 (ppm)	CO (ppm)	Comments
Classroom 140 (middle of room)	11:29 am	70.7	45.9	648	0.0	Vacant room – HVAC on
Classroom 130 (at back desk)	11:34 am	72.5	45.1	546	0.0	HVAC on
Hallway at room 130	11:40 am	73.4	44.4	610	0.0	-
Classroom 150 (at back table)	11:50 am	73.4	43.0	516	0.0	HVAC on
3rd Grade Hallway	12:15 pm	73.4	43.9	541	0.0	-
Outside ambient air (street level)	12:38 pm	68.9	52.9	400	0.0	Warm, sunny fall day

Discussion of Results:

1. Spore Trap Samples
   Sample results indicate normal levels of typically found indoor mold spores in each sample. The airborne mold spore levels are considered low. The mold species identified are typically found in indoor environments at low levels
2. BioTape Lift Sample
   Analysis result indicates no fungi (mold) spore or mycelium growth. The dried water stains/droplets present in hallway ceiling plenum do not contain mold growth
3. Indoor Air Quality Measurements
   Carbon Dioxide - all locations sampled within recommended guidelines
   Carbon Monoxide - none detected
   Temperature and Relative Humidity - 70.7-73.4 degrees, 43.0-45.9% relative humidity - all within recommended levels

Recommendations

Spore trap samples show low levels of airborne mold spores. No current visible mold or water damaged materials were observed

- No Additional mold sampling is recommended at this time

Results of baseline IAQ sampling indicate those measured are within recommended ASHRAE Guidelines. No Additional IAQ Sampling Recommended.

- If concerns persist, additional IAQ sampling and investigation may be conducted
- Full Building IAQ assessment done by the DPH in November of 2017

Supply and return vents (including interior metal surfaces) within kindergarten wing classrooms be cleaned of accumulated dust and debris

- Work Completed by Hobomock Maintenance Staff during December/winter break.

Rooftop Air Handling Unit and associated ducting supplying Kindergarten classrooms and 3rd grade hallways should be assessed for inspection

- Inspection completed January 2017 by HVAC contractor Arnold Refrigeration

November 2017 DPH Testing (Full Report)

Overview- 54 areas tested

- Carbon Dioxide - below 800 parts per million in 47 of 54 areas tested, indicating adequate air exchanges, some areas were empty which can reduce carbon dioxide levels
- Temperature - within the recommended range of 70-78 degrees Fahrenheit in about half the areas tested, just slightly below that range in the other half of the areas tested
- Relative humidity - was within or slightly below the recommended range of 40-60% in all areas tested
- Carbon Monoxide - non-detectable in all areas tested
- Fine Particulate matter - concentrations were below the NAAQS limit of 35/m^3 in all areas tested

Conclusions/Recommendations

1. Operate all supply and exhaust ventilation equipment continuously during occupied periods	✅	All units set to 8-3:30 for School Days - AHU - 2 runs 24/7
2. Use openable windows to supplement fresh air. Ensure all windows are closed at the end of the day	✅	Managed by classroom & maintenance staff
3. Check exhaust fans for draw periodically and repair any non-operating vents	✅	Managed by maintenance staff in conjunction with HVAC vendor
4. Close classroom doors to facilitate exhaust function	✅	
5. Adopt a balancing schedule every 5 years for all mechanical ventilation systems	✅	We use WebControls through Automated Logics
6. During periods of low humidity, scrupulous cleaning practices should be adopted which include using HEPA vacuums to control dust, and wet wiping of all surfaces	✅	Managed by maintenance staff
7. Ensure roof and plumbing leaks are repaired and replace water damaged ceiling tiles	ongoing	Managed by maintenance staff in conjunction with roofing and plumbing vendors
9. Ensure ductless AC condensate is draining properly and clean the units in LGI	✅	Units were cleaned in Summer of 2018 and both units were replaced in the Summer of 2024
10. Keep logs of any chronic odors	Ongoing	Managed by building staff and administrator
11. Avoid placing refrigerators and water dispensers on carpet, use waterproof mat or tile	X	1 refrigerator in teachers room is still on carpet
12. Properly maintain plants	✅	Plants were removed from classroom spaces
13. Reduce use of products and equipment that use VOCs	Ongoing	Only products approved for use in School Buildings are available
14. Replace tennis balls on chair footings with latex-free glides	Ongoing	
15. Continue changing filters for HVAC equipment 2-4 times per year, DPH recommends MERV-8	✅	Filters are changed 3 times a year and we are using MERV -8 & 12
16. Regularly clean/vacuum supply vents and fans	X	This had not been happening but entire system was professionally cleaned in 2024 and upkeep will be part of summer cleaning
17. Clean window-mounted ACs including filters	Ongoing	We have been replacing AC units as needed
18. Consider reducing the amount items stored in classrooms to make cleaning easier	Ongoing	
19. Clean pencil sharpener debris regularly	✅	
20. Clean carpeting annually (or semi-annually) in soiled high traffic areas	✅	Managed by maintenance staff as well as outside vendors

December 2020 Pure Air Systems (Full Report)

- Overview:
- 8 rooms were sampled - Room 100, 125, 145, 160, 210, 225, 240, 255
  - Surface Tape Preparations to assess the distribution of fungal structures and/or other allergens settled in the environment
  - Radon gas testing
  - Surface sampling of frequently touched areas for COVID-19 and SaRS-CoV-2
  - Measurements of temperature and relative humidity for the assessment of comfort and conditions that might support microbial proliferation and chemical interactions
  - Measurements of carbon dioxide as a measure for ventilation adequacy
  - Particle counting of respirable size as an indicator of air filtration efficiency and/or unusual dust levels.
  - Visual inspection of the air handler and air distribution system to address any potential sanitary conditions that may need attention

Results

Air Quality

Matrix	Parameter	Unit	Guideline*	Ref.	Room 160	Room 145	Room 100	Room M125	Room 255	Room 240	Room 225	Room 210	Outside Air
Comfort	Temperature	°F	72 to 78	1	66.6	68.8	70.8	68.4	72.7	73.2	72.9	72.9	33.0
	Relative Humidity	%	30 to 60	1	24.5	20.7	18.7	17.9	21.1	19.8	21.0	19.6	34.4
Particle	Respirable size	p/l	≤25,000 or 1/3 OA	3	9,542	6,348	6,197	6,707	6,902	5,023	6,375	8,728	9,977

Foot Notes

Units	Reference	Notes
cts/m³ = Counts per Cubic Meter of Air	1. ASHRAE Handbook Fundamentals 2017 p10.16	BDL = Below Detectable Limit
°F = Degrees Fahrenheit	2. ASHRAE 62.1 - 2016	OA = Outside Air
% = Percent	3. Pure Air Control Services, Inc.	Red = Unacceptable, Remedial Action Highly Recommended
ppm= parts per million	4. Mojhave 1990	Yellow = Marginal Condition. Remedial Actions Optional
p/l = particles per liter of air	5 2016 ASHRAE Handbook – HVAC Systems and Equipment, Chapter 22.1	NA = Not Applicable
		* = See Guidelines Section

Settled Aerosols in the Occupiable Space

Matrix	Parameter	Unit	Guideline*	Ref.	Room 160		Room 145		Room 100		Room M125	
					Teacher Desk	Student Desk	Teacher Desk	Student Desk	Teacher Desk	Student Desk	Teacher Desk	Student Desk
Tape Prep	Opaque Particles	cts/cm²	≤6000	3	1,970	2,700	578	248	973	950	1,660	3,930
	Skin Cell Fragments	cts/cm²	≤1200	3	850	288	20	12	769	156	532	328
	Insect Biodetritus	cts/cm²	≤32	3	16	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Fibers	cts/cm²	≤240	3	488	572	16	4	468	24	292	56
	Fiberglass Fibers	cts/cm²	≤32	3	8	4	BDL	BDL	BDL	BDL	BDL	BDL
	Pollen	cts/cm²	≤32	3	12	44	BDL	BDL	4	BDL	BDL	BDL
	Fungal Elements	cts/cm²	≤100	3	96	8	BDL	BDL	28	BDL	32	4
	Other	cts/cm²	≤1300	3	1,490	1,900	256	64	623	236	644	729

Foot Notes

Units	Reference	Notes
cts/m² = Counts per Square Centimeter	3. Pure Air Control Services, Inc.	BDL = Below Detectable Limit
		NA = Not Applicable
		Red = Unacceptable, Remedial Actions Highly Recommended
		Yellow = Marginal Condition. Remedial Actions Optional
		* = See Guidelines Section

Settled Aerosols in the Occupiable Space

Matrix	Parameter	Unit	Guideline*	Ref.	Room 240		Room 225		Room 210		Room 255	
					Teacher Desk	Student Desk	Teacher Desk	Student Desk	Teacher Desk	Student Desk	Teacher Desk	Student Desk
Tape Prep	Opaque Particles	cts/cm²	≤6000	3	2,100	6,850	693	2,400	3,100	1,100	547	743
	Skin Cell Fragments	cts/cm²	≤1200	3	332	172	292	132	288	36	216	72
	Insect Biodetritus	cts/cm²	≤32	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8
	Fibers	cts/cm²	≤240	3	148	44	92	44	100	28	284	76
	Fiberglass Fibers	cts/cm²	≤32	3	BDL	BDL	BDL	8	BDL	BDL	BDL	BDL
	Pollen	cts/cm²	≤32	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Fungal Elements	cts/cm²	≤100	3	144	12	4	BDL	4	4	BDL	BDL
	Other	cts/cm²	≤1300	3	584	1,070	696	348	372	200	312	132

Foot Notes

Units	Reference	Notes
cts/m² = Counts per Square Centimeter	3. Pure Air Control Services, Inc.	BDL = Below Detectable Limit
		NA = Not Applicable
		Red = Unacceptable, Remedial Actions Highly Recommended
		Yellow = Marginal Condition. Remedial Actions Optional
		* = See Guidelines Section

Conclusions/Recommendations

- Fungal elements in Room 240 were detected to be slightly elevated
- Excessive dust was found in Room 100, 125, 160, 240 & 255 - Elevated dust settlement levels often time result from elevated human activity and indicate the need for increased housekeeping and air filtration efficiency also.
- Respirable-size particles in all areas tested were well within recommended levels
- Carbon Dioxide concentrations are used as a rough way to assess the adequacy of the ventilation system- all reading were well with the recommended guideline
- Temperature and relative humidity readings were low in most areas, based on the outside temperature on the day of testing (34.5 degrees) these low readings did not indicate a concern.
- AHU-1, ACU-1 and AHU-7 were assessed and a significant layer of dust was observed
- No radon was detected in any of the areas tested

Recommendations

Air Conveyance

- Clean and Sanitize the Air Handlers - Completed by Arnold Refrigeration Spring of 2021
- Environmentally clean and sanitize the air distribution system - Fully completed 2024
- Air Handler and Air Distribution cleaning needs to be completed by licensed HVAC vendor
- WORK PARTIALLY COMPLETED IN 2020 - FULLY COMPLETED 2024

Environmental Cleaning

- Recommended that rooms 100, 125, 160 & 255 be environmentally cleaned
- Cleaning and Sanitizing all surfaces
- Direct Contact Vacuuming
- Use of Registered Biocide
- WORK COMPLETED BY MAINTENANCE STAFF 2020-Ongoing

General

- Use filters of at least MERV-8
- Make sure filters fit snugly on racks, covers fit properly, air handlers are properly sealed
- Set thermostats to maintain temperature and relative humidity
- Ensure maintenance is using vacuums with HEPA filters
- WORK COMPLETED BY MAINTENANCE STAFF 2020-ONGOING

TIMELINE - August 2023- Present Day

August 2023

Concern raised in Room 225

September 2023

Additional areas of concern raised by staff - PMEC testing done on Room 225, Art Hallway, Hallway at Room 150, Room 245/250 and Atrium by Cafeteria

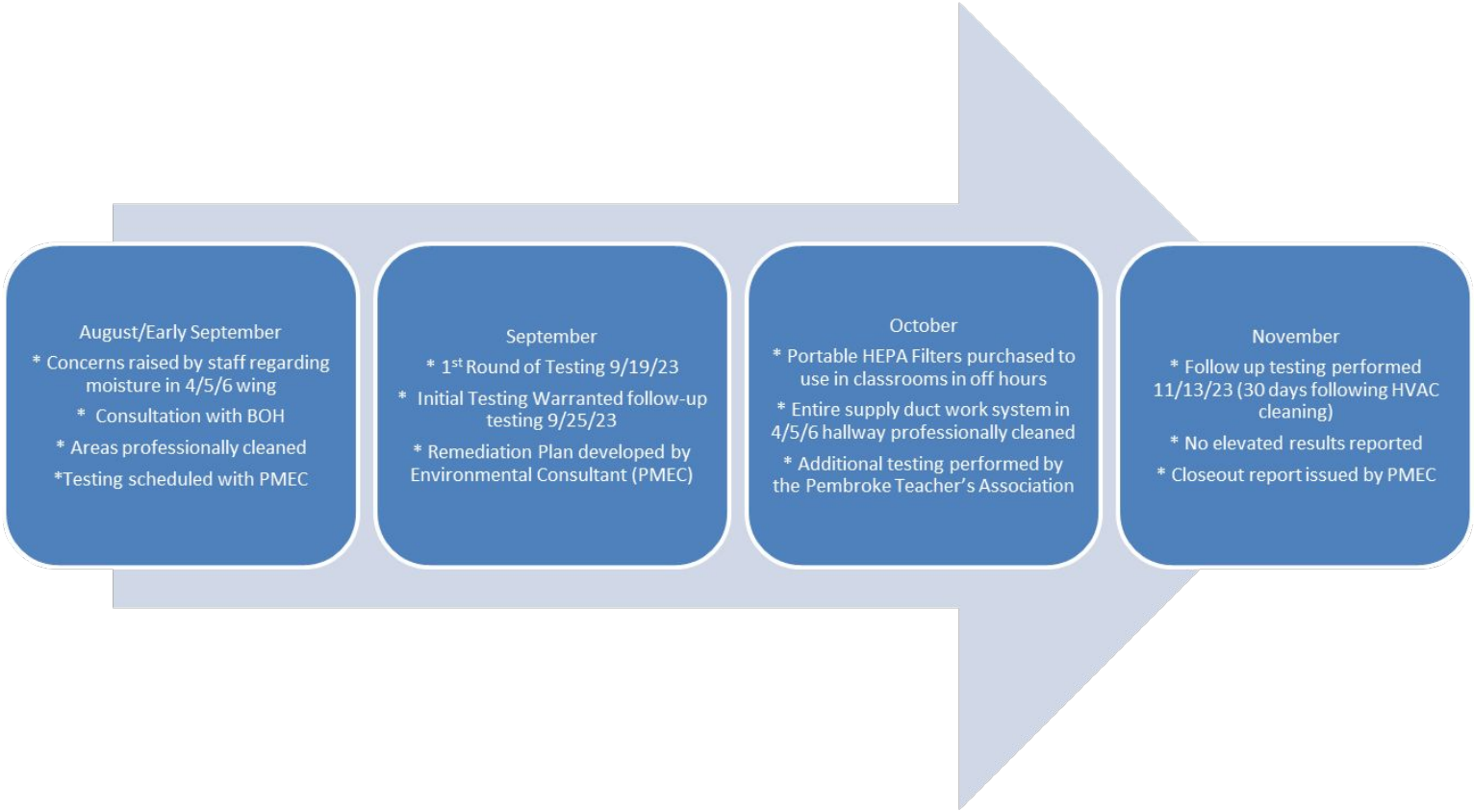
October 2023

Division of Labor Standards Complaint filed by PTA

November 2023

All recommended remediation completed. Closeout report issued DLS Complaint closed

August 2023-December 2023



August 2023 Detail

- Concerns raised by staff
  - August 29th & 30th 4/5/6 wing
  - Consulted with BOH Agent
  - Rooms professionally cleaned and sanitized over Labor Day weekend
- Areas professionally cleaned
  - Stanley Steamer environmentally cleaned rooms 225,230,235,240,245,250,210,215 on 9/4/23
- Inspection by Board of Health Agent Lisa Cullity
  - 9/14/23 Lisa joined me to tour Hobo as well as to take a look at two concerns that had been raised by staff on 9/13/23 (please see photos slide)
- Testing Scheduled - 9/19/23 with PMEC

Communications SY 2023-2024

- **September 19, 2023** - Attendance at Hobomock staff meeting to answer questions and identify additional areas for testing from PPS expert
- **September 28, 2023** - Letter to Hobomock Families regarding concerns and remediation steps in the 4/5/6 wing
- **March 11, 2024** - Attendance at Hobomock PTO meeting to address parent questions and concerns.
- **March 15, 2024** - Communication to Hobomock Families regarding the full remediation of the concern in 4/5/6 wing and opportunities for them to ask questions and raise concerns
- **March 20, 2024** - Set up a table in the library at Parent teacher conferences for families to ask questions (1 parent inquiry)
- **March 21, 2024** - Parent Q & A Meeting with myself and Health Agent Lisa Cullity. 4 parents attended, 1 staff member and one community member/real estate agent from Hanover.
- **March 26, 2024** - Attendance at Hobomock Staff meeting to answer any remaining questions
- **Ongoing** response to individual questions from both myself and administrators at Hobomock (Michael Murphy/Ashley Cross)

September 2023 Detail

- First Round of Testing 9/19/23 - Results
  - Elevated Levels of Aspergillus/Penicillium and Cladosporium in Room 225

2. **Classroom 225**: The analysis results for classroom 225 indicates an overall elevated level of airborne fungal spores (3,600 C/m³). Additionally, the analysis indicates an elevated level of Aspergillus/Penicillium (Asp/Pen) and Cladosporium spores. Asp/Pen fungal growth is often associated with wet building materials and within areas of long term high humidity. The long term high humidity conditions in the summer season may allow microbial growth to occur on porous surfaces (paper, ceiling tiles, carpeting, wallboard, etc.) The presence of Cladosporium spores is often associated with condensation moisture from HVAC systems. The Aspergillus/Penicillium and Cladosporium species may be of concern for immunocompromised individuals.

- Follow - Up testing of more areas in the 4/5/6 wing - 9/25/23 - Results

Table 2
Mold Sample Analysis Results
September 25, 2023 (2nd round)

Sample #	Sample Location	Total Fungi (C/m³)	Specific Species & levels of note
3705 3109 (01)	**Classroom 225** - at front desk (opposite entrance door)	750 C/m³	**Aspergillus/Penicillium – 750 C/m³**
3705 3116 (02)	**Classroom 225** - at back desk (near door)	243 C/m³	**Aspergillus/Penicillium – 230 C/m³** Myxomycetes – 13 C/m³
3705 3119 (03)	**Classroom 230 –** at back desk	210 C/m³	**Aspergillus/Penicillium – 210 C/m³**
3705 3115 (04)	**Classroom 235 –** at back desk	53 C/m³	Ascospores – 40 C/m³ Basidiospores – 13 C/m³
3705 3118 (05)	**Classroom 245 –** at back desk	26 C/m³	Basidiospores – 13 C/m³ Cladosporium – 13 C/m³
3592 3577 (06)	**Classroom 250 –** at back desk	40 C/m³	Ascospores – 40 C/m³
3705 3102 (07)	**Outside ambient air** Outside exit door 3 **(comparison sample)**	2,057 C/m³	Ascospores – 1,500 C/m³ Basidiospores – 530 C/m³ Myxomycetes – 27 C/m³

Notes: Additional information on species types are provided in the Laboratory Analysis results.

Table 3
Tape Lift (Bio-Tape) Surface Sampling Analysis Results

Sample #	Sample Location	Mold Spore Present / Estimate	Mycelial estimate (Growth potential)
01T	**Classroom 225** – left side ceiling supply vent	Myxomycetes - rare Aspergillus/Penicillium – light	None (ND) None (ND)
02T	**Classroom 225** – left side ceiling supply vent	Aspergillus/Penicillium – light Cladosporium – Light	None (ND)
03T	**Classroom 225** – in ceiling plenum on back side metal ceiling joist (yellow staining)	No Fungi Present	None (ND)

Fall 2023 Remediation

1. AHU-2 and associated ductwork for classroom 225 and 230 should be cleaned and decontaminated. COMPLETED BY AIR DUCT SERVICES OCTOBER 2023
2. HEPA filtration via scrubber fans is recommended in rooms 225, 230 and all adjacent areas. This process will assist in reducing airborne mold spore levels on a consistent basis over times. HEPA SCRUBBERS PURCHASED SEPTEMBER 2023
3. Horizontal room surfaces may be cleaned and disinfected on a regular basis to assist in removing any settled spores that may be present MAINTENANCE STAFF
4. If possible relative humidity levels should be controlled in maintain levels below 60% and preferably below 50% ADDITIONAL DEHUMIDIFIERS ADDED TO 4/5/6 WING
5. All remedial responses should be conducted in accordance with guidelines and standards established by US EPA, OSHA and IICRC remediation methods

November 2023 Testing & Closeout Report

Table 3
Hobomock Elementary School
Mold Laboratory Analysis Results Summary
For four Sampling Rounds

Room #	*September 19, 2023* ***Round #1***	*September 25, 2023* ***Round #2***	*October 16, 2023* ***Round #3***	*November 13, 2023* ***Round #4***	**Comments for Round #4**
Classroom # 225 (front)	NA	**750 C/m³ -** Asp/Pen	**1,100 C/m³ -** Asp/Pen	200 C/m³ - Asp/Pen	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
	NA	750 C/m³ – Total	1,393 C/m³ – Total	253 C/m³ – Total	
Classroom # 225 (back)	**3,900 C/m³ -** Asp/Pen **1,300 C/m³** cladosporium	**750 C/m³ -** Asp/Pen	**3,400 C/m³ -** Asp/Pen	53 C/m³ - Asp/Pen	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
	5,610 C/m³ – Total	**5,610 C/m³ – Total**	**5,013 C/m³ – Total**	79 C/m³ – Total	
Classroom 230	NA	210 C/m³ - Asp/Pen	110 C/m³ - Asp/Pen	No Asp/Pen present	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
		210 C/m³ – Total	243 C/m³ – Total	40 C/m³ – Total	
Classroom 235	NA	0 C/m³ - Asp/Pen	**560 C/m³ - Asp/Pen**	No Asp/Pen present	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
		53 C/m³ – Total	560 C/m³ – Total	40 C/m³ – Total	
Classroom 240	NA	NA	**1,800 C/m³ - Asp/Pen**	No Asp/Pen present	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
			1,920 C/m³ – Total	67 C/m³ – Total	
Classroom 245	130 C/m³ Asp/Pen	0 C/m³ - Asp/Pen	150 C/m³ - Asp/Pen	No Asp/Pen present	Asp/Pen and total spore counts at acceptable levels
	237 C/m³ – Total	26 C/m³ – Total	163 C/m³ – Total	26 C/m³ – Total	
Classroom 250	NA	0 C/m³ - Asp/Pen	0 C/m³ - Asp/Pen	No Asp/Pen present	Asp/Pen and total spore counts at acceptable levels
		26 C/m³ – Total	13 C/m³ – Total	40 C/m³ – Total	
Hallway at room 275				53 C/m³ - Asp/Pen	Asp/Pen and total spore counts at acceptable levels
				66 C/m³ – Total	
Outside ambient air	0 C/m³ Asp/Pen	0 C/m³ Asp/Pen	0 C/m³ - Asp/Pen	No Asp/Pen present	No Asp/Pen present. Typical outdoor levels
	3,350 C/m3 - Total	2,057 C/m3 - Total	3,827 C/m³ – Total	257 C/m³ – Total	

Notes: NA = not applicable/not collected; Bold = level and/or species of concern
C/m³ = Spore counts per cubic meter of air
Asp/Pen = abbreviation for Aspergillus/Penicillium microbial species analysis detection
Total = total airborne spore level analysis for sample

Good afternoon Superintendent Obey,

Thank you for sending us your descriptions of the actions that you have taken to investigate and correct the conditions identified in the Department of Labor Standards ("DLS") Complaint Letter dated September 27, 2023. DLS finds your responses satisfactory has closed DLS File # 24S-6410 on November 16, 2023, upon receipt of your last response.

Thank you for your cooperation and commitment to the safety and health of your employees. If you have any questions or require additional assistance, please do not hesitate to contact me at 508-967-9947 or stephen.dagle@mass.gov .

Sincerely,

Stephen Dagle
Safety and Health Inspector
Massachusetts Department of Labor Standards
Workplace Safety and Health Program
72 School Street
Taunton, MA 02780
Office 508-967-9947
Fax 508-822-2033
Stephen.Dagle@mass.gov
www.mass.gov/dols/wshp

PTA Testing - Conducted on 10/10/23 Results shared with Administration 1/19/24

Table 1. Air Test - Mold Spore Trap Analysis Summary

Location	Outside and Inside spores/m^3	Total spores/m^3
Outside door of hallway opposite room 225	Ascospores (330), Basidiospores (1,200), Cladosporium (730), Epicoccum (7), Penicillium/Aspergillus types (230), Smuts, Periconia, Myxomycetes (37)	2,500
Room 280 (office)	Ascospores (7), Basidiospores (15), Cladosporium (15), Curvularian (7), Other brown (7), Penicillium/Aspergillus types (350), Smuts, Periconia, Myxomycetes (230)	630
Room 245	Ascospores (7), Basidiospores (15), Penicillium/Aspergillus types (930) Smuts, Periconia, Myxomycetes (59)	1000
Room 263	Ascospores (30), Basidiospores (89), Cladosporium (37), Other brown (15), Penicillium/Aspergillus types (37), Pithomyces (7), Rusts (7), Smuts, Periconia, Myxomycetes (170)	390
Music Room	Ascospores (22), Basidiospores (30), Cladosporium (22), Curvularia (7), Other Brown (7), Penicillium/Aspergillus types (15), Rusts (7), Smuts Periconia, Myxomycetes (160)	270
Teachers' Lounge	Ascospores (59), Basidiospores (140), Cladosporium (52) Curvularian (7), Other brown (30), Penicillium/Aspergillus types (1,300), Rusts (7), Smuts, Periconia, Myxomycetes (100)	1,700

***Species highlighted in red indicate elevated spores and/or species with spores/m^3 detected at a higher level (>*1.5) inside than outside.**

AMold Score in Table 1 is a rating assigned by EMLab rated from 100 to 300 (see appendix 3). A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate probability of indoor fungal growth. The Scores assigned by EMLab to the air samples were all low (less than 150).

Table 2. Surface Samples and Direct Microscopic Examination Summary

Location	Species	Mold Analysis
Room 225 Blinds	Cladosporium species (spores, hyphae, conidiophores) 3+	Heavy Mold Growth
Room 280 Paper on shelf	Cladosporium species (spores, hyphae, conidiophores) 2+ Penicillium/Aspergillus group (spores) 1+	Mold Growth
Room 263 Base of Door	None	Normal Trappings
Music Room	None	Normal Trappings
Teachers' Lounge Rug	Penicillium species (spores, hyphae) 3+	Heavy Mold Growth
1st and 2nd grade hallway	Penicillium species (spores, hyphae) 2+ Cladosporium species (spores, hyphae 1+	Mold Growth
Room 245 Blinds	Cladosporium species (spores, hyphae, conidiophores) 3+	Heavy Mold Growth

When interpreting surface sample findings, mold growth is ranked into five categories, from <1+ to 4+. <1+ is evidence of **very light growth,** observed on the sample as indicated by spores of one type seen with underlying mycelial and/or with their sporulating structures found in less than **10%** of the microscopic fields examined; 1+ is evidence of **light mold growth** indicated by spores of one type seen with underlying mycelial and/or sporulating structures found in **10 to 25%** of the microscopic fields examined. 2+ is evidence of **moderate growth,** observed on the sample as indicated by spores of one type seen with underlying mycelial and/or with their sporulating structures found in le **26 to 50%** of the microscopic fields examined; 3+ is evidence of **heavy mold growth** indicated by spores of one type seen with underlying mycelial and/or sporulating structures found in **51 to 75%** of the microscopic fields examined, 4+ is evidence of **very heavy mold growth** indicated by spores of one type seen with underlying mycelial and/or sporulating structures found confluent in the **majority** of the microscopic fields examined. .

PTA Testing Report Recommendations

Recommendation	Completion	Notes
Establish a strong Health and Safety Committee	2-14-24-Ongoing	
2. Sanitize rooms where surface mold growth was detected (Room 225, 245, 250, 1st & 2nd grade hallway)	November 2023	Completed by Maintenance Staff
3. Consider removing rug in teacher's lounge		Rugs in teacher room, music room and library professional cleaned Thursday of February break, 2/22/24
4. Post remediation samples should be taken	3-12-24	
5. Monitor assess and investigate all sources of moisture. Install equipment to reduce relative humidity. If a sealing tile is stained, replace it and find and seal the source of moisture. Utilize portable air cleaners as needed	3-12-24-Ongoing	
6. Monitor humidity throughout the year, especially from May to October, do not leave building closed off. Maintain good housekeeping, good building maintenance practices. Consider purchasing industrial type dehumidification systems.	Ongoing	Additional dehumidifiers purchased 6-12-24
7. Increase circulation by eliminating areas of clutter	2-10-24	
8. During the rainy season assess the concrete slab	3-12-24	
9. Consider testing the air and surfaces for presence of mold spores in plenum above the drop ceiling. Test in representative locations in the building. At least 20% should be sampled to get a representative sample	Completed	Quarterly monitoring scheduled developed as part of side letter agreement
10. Take air flow measurements to determine if air flows are consistent with keeping the building dry	12-2020	Completed as part of building health check done by PureAir
11. Install or continue to use MERV 13 filters in all central air handlers	Ongoing	All units are double filtered with a MERV8/11 & MERV 12/13 and are changed regularly

Hobomock Mold Photos

Photo 1- Classroom Item

Photo 2- Classroom Item

Photo 3- Classroom Item

Photo 4 - Floor kick plate in hall by art room

Photo 5- Stained ceiling tile by exit sign

Photo 6- Room 140

Photo 7- Missing ceiling tile

Photo 8- Staff restroom floor

Photo 9- Library Rug

Photo 10- Library Rug

Photo 11- Library rug

Photo 12- Tub of disinfectant wipes

Photo Explanations and Associated Dates

- Photos 1,2 &3 - classroom items
  - Concern Raised on 8/31/23
    - Remediation - 8/31/23 Consultation with Health Agent, 9/1/23 contracted cleaning company to have all the classrooms in 4/5/6 wing environmentally cleaned
- Photo 4 - floor kick plate in hall by art room
  - Concern Raised on 9/12/23
    - Remediation - 9/13/23 Visual inspection by Health Agent - professional opinion no mold growth- clean an monitor area 9/19/23 area inspected and tested by CIEC - no elevated levels
- Photo 5 - Stained Ceiling tile by exit sign
  - Concern raised 2/14/24
    - Remediation - 2/20/24 ceiling tile replaced by maintenance staff no evidence of recurring leak
- Photo 6 - Room 140
  - Concern raised on 11/29/23 and again on 2/14/24
    - Remediation - Previous complaints of musty odor (11/2016) room not included in 9/19/23 testing or PTA testing on 10/10/23, contracted with CIEC to investigate root cause musty odor 2/26/24 & 3/12/24
- Photo 7 - Missing Ceiling Tile
  - Concern raised 2/14/24
    - Remediation - Ceiling tile replaced with new vinyl tile over February break
- Photo 8 - Staff Restroom Floor
  - Concern raised 2/14/24
    - Remediation - plumbing fixture replaced 2/21/24, no evidence of continued leak
- Photo 9, 10 & 11 - Library Rug
  - Concern raised 2/14/24
    - Remediation - Rugs in teacher's room, music room and library professionally cleaned 2/22/24
- Photo 12
  - Concern raised 2/14/24
    - Remediation - Bucket of wipes purchased in 2020 during COVID. Sealed plastic bucket with moistened wipes in a humid setting. Manufacturers instructions state storage is to be in a well ventilated space, keep cool and discard 12 months after production date.

PTA- PSC Collaboration

- Several meetings were held from February - June 2024 to establish a side letter of agreement on how air quality and mold concerns would be handled moving forward
- March 2024- Health and Safety Committee proposed work to continue to investigate the recurring moisture concerns at Hobomock
- Additional adjustments were made to the side letter to add the other buildings in for testing as well as to outline the process of how results and reports are shared and dispersed as well as developing protocols on how staff report concerns.
    - All five buildings tested November 2024, no elevated levels detected
    - Results and Reports received from School's CIEC expert shared in one joint email to administration and PTA per our agreement
        - PTA/MTA expert results/reports significant time lapse between sharing with PTA and sharing with administration (as evidenced by the October 2023 testing)
    - Joint Labor Management Committee (JLMC) consisting of PTA President, Vice President, Negotiations Chair, MTA expert Scott Fulmer, PPS expert Paul Matuszko, PHS principal Marc Talbot met on 10/7/24 to discuss protocols for reporting per our agreement
        - Administration created a flow chart and shared with PTA on 11/1/24
        - Still waiting on feedback from the PTA

Results: Morning Sampling 3-12-24 vs Afternoon Sampling 2-28-24

Table 4
Tape Lift (Bio-Tape) Surface Sampling Analysis Results

Sample #	Sample Location	Species and Spore Estimate	Mycelial estimate (Current Growth potential)	Comment
February 28, 2024 Sample Results				
01T (#10)	**Faculty Dining Room –** Carpeting under table	Cladosporium – moderate level	Trace	Spores present but limited to no active growth.
02T (#11)	**Hallway at classroom 135** (at lower wall cove base)	No fungi Detected	None	None present

Table 2
Spore Trap Air Sample Analysis Results
March 12, 2024

Sample #	Time	Sample Location	Total Fungi (C/m³)	Specific Species & levels of note
3590 2815 (01)	~7:10 am	**Classroom 240 -** At back right side on rug (**note**: teacher present in room)	1,790 C/m³	Ascospores – 93 C/m³ **Aspergillus/Penicillium – 1,500 C/m³** Basidiospores – 27 C/m Cladosporium – 170 C/m³
3782 1619 (02)	~7:15 am	**Classroom 225 -** At front teacher's desk	93 C/m³	Aspergillus/Penicillium – 80 C/m³ Basidiospores – 13 C/m
3782 1592 (03)	~7:30 am	**Classroom 135 -** Near teacher's desk	26 C/m³	Ascospores – 13 C/m³ Cladosporium – 13 C/m³
3705 3099 (04)	~7:45 am	**Classroom 125 -** Near teacher's desk	27 C/m³	Myxomycetes – 27 C/m³
3705 3108 (05)	~7:55 am	**Music room –** middle of room	67 C/m³	Ascospores – 27 C/m³ Basidiospores – 13 C/m Cladosporium – 27 C/m³
3782 1597 (06)	~8:05 am	**Teacher's Lounge** at table (HVAC on, no HEPA fan)	187 C/m³	Ascospores – 27 C/m³ Aspergillus/Penicillium – 120 C/m³ Basidiospores – 40 C/m
3782 1624 (07)	~8:15 am	**Classroom 140 -** At teacher's desk (HVAC on, HEPA fan on)	80 C/m³	Basidiospores – 27 C/m Cladosporium – 53 C/m³
3782 1604 (08)	~9:10 am	**Library -** At middle teacher's desk (room occupied, HVAC on, no HEPA fan present))	94 C/m³	Ascospores – 27 C/m³ Aspergillus/Penicillium – 40 C/m³ Basidiospores – 27 C/m
3782 1588 (09)	~9:25 am	**Outside ambient air** (outside front entrance)	177 C/m³	Ascospores – 27 C/m³ Basidiospores – 27 C/m

Notes: Additional information on species types are provided in the Laboratory Analysis results.
Asp/Pen = abbreviation for Aspergillus/Penicillium microbial species analysis detection

Table 3
Analysis Results Summary Comparison For Two Sampling Rounds

Location/Room #	*February 28, 2024* ***Round #1 ****	*March 12, 2024* ***Round #2 *****	Comments
Classroom # 225 (front)	**4,500 C/m³** Asp/Pen **840 C/m³** Cladosporium	80 C/m³ Asp/Pen	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
	5,393 C/m³ - Total	93 C/m³ - Total	
Classroom # 240 (back)	**2,200 C/m³** Asp/Pen	**1,500 C/m³** Asp/Pen	Asp/Pen and total spore counts remain elevated at time of sampling. Room occupied during 3/12/24 sampling.
	2,227 C/m³ - Total	**1,790 C/m³ - Total**	
Music Room	**3,500 C/m³** Asp/Pen **470 C/m³** Cladosporium	No - Asp/Pen present	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
	3,996 C/m³ - Total	67 C/m³ - Total	
Faculty Dining Room (Teacher's Lounge)	No - Asp/Pen present	120 C/m³ Asp/Pen	Asp/Pen and total spore counts remain at acceptable levels
	149 C/m³ - Total	187 C/m³ - Total	
Classroom # 140	**2,300 C/m³** Asp/Pen	No - Asp/Pen present	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
	2,366 C/m³ - Total	80 C/m³ - Total	
Classroom # 135	No - Asp/Pen present	No - Asp/Pen present	Asp/Pen and total spore counts remain at acceptable levels
	93 C/m³ - Total	26 C/m³ - Total	
Classroom # 125	**1,500 C/m³** Asp/Pen	No - Asp/Pen present	Asp/Pen and total spore counts sufficiently reduced to acceptable levels
	1,674 C/m³ - Total	27 C/m³ - Total	
Classroom # 110	240 C/m³ Asp/Pen	Not collected	Asp/Pen and total spore counts initially at acceptable levels
	333 C/m³ - Total	Not collected	
Library	Not collected	40 C/m³ Asp/Pen	Asp/Pen and total spore counts at acceptable levels
	Not Collected	94 C/m³ - Total	
Outside front entrance (ambient air)	No Asp/Pen present	No Asp/Pen present	No Asp/Pen identified, total levels are low and typical for season.
	160 C/m³ - Total	177 C/m³ - Total	

Notes: * - Late afternoon sampling after school in session, rooms mainly unoccupied, no HEPA fans operating.
** - early morning sampling with HVAC unit mainly off and rooms unoccupied. HEPA fans operating in classrooms and music room.

February - March 2024- Additional Investigation Done by PMEC Full Report

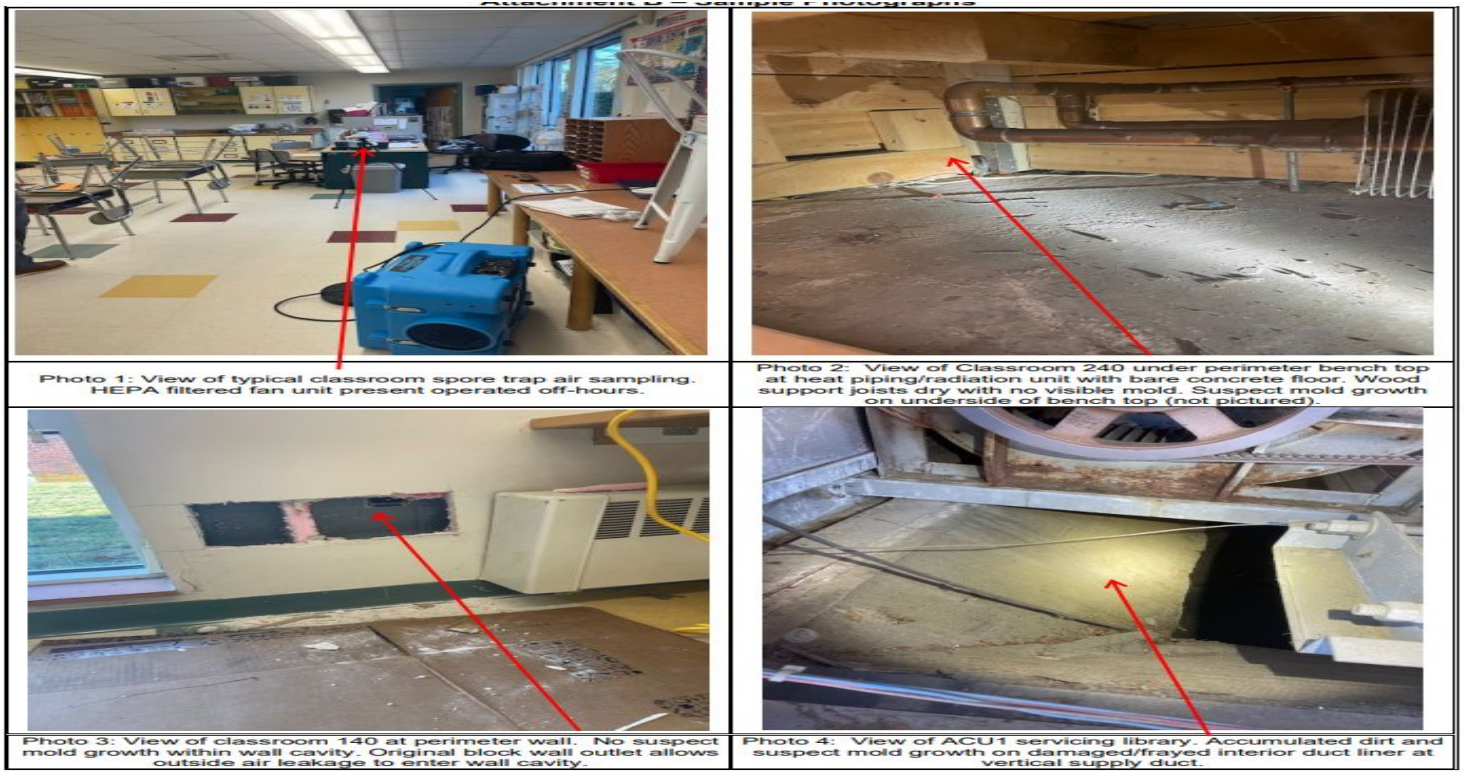


Photo 1: View of typical classroom spore trap air sampling. HEPA filtered fan unit present operated off-hours.

Photo 2: View of Classroom 240 under perimeter bench top at heat piping/radiation unit with bare concrete floor. Wood support joists dry with no visible mold. Suspect mold growth on underside of bench top (not pictured).

Photo 3: View of classroom 140 at perimeter wall. No suspect mold growth within wall cavity. Original block wall outlet allows outside air leakage to enter wall cavity.

Photo 4: View of ACU1 servicing library. Accumulated dirt and suspect mold growth on damaged/frayed interior duct liner at vertical supply duct.

Conclusions/ Recommendations

10.0 Conclusions

A. The March 12, 2024 laboratory analysis results indicate that the airborne mold spore levels in the locations sampled were lower than February 28, 2024 sampling event. The results suggest that the spore levels are sufficiently low and acceptable on the sampling date. However, classrooms 240 was sampled and found to have an elevated level of Asp/Pen spores. HEPA fan units continue to assist in lowering airborne mold spores where utilized.

B. Surface tape lift sampling results indicate mold growth in select areas including the Classroom 240 bench underside, within the Classroom 140 ceiling supply vent, and on the roof top unit ACU#1 interior duct liner.

C. The current results and conditions suggest the classrooms and other rooms sampled, except for classroom 240, are generally at a Condition 1 – normal indoor ecology environment per the IICRC guidelines.

D. The on-going cleaning and HEPA air filtering in the designated classrooms has assisted in lowering airborne spore levels.

11.0 Recommendations

A. Continue operating portable HEPA fan units in classrooms on an ongoing basis.

B. Additional investigation and assessment of building surfaces and roof top units should be conducted to further determine potential microbial sources and reservoirs. The School Administration should develop a detailed response action plan that includes focused remediation and HVAC system improvements. This assessment should include further inspection of perimeter bench tops, ceiling diffusers, carpeting/ area rugs for sources of microbial sources.

C. Additional sampling is not recommended at this time until building surfaces and components are assessed and corrective actions implemented.

D. A detailed action plan should be developed to determine the proper sequence and schedule in performing recommended response actions. These response actions include a combination of HVAC system and classroom cleaning. Response actions that may be developed, scheduled, and implemented include, but are not limited, to:

1. Remediation and encapsulation of bench top wood undersides.
2. Roof top unit cleaning, operations and maintenance (O&M) servicing, etc.
3. Cleaning and encapsulation of interior duct liners.
4. HVAC system, ceiling diffusers, and duct cleaning.
5. Classroom cleaning and disinfection
6. Steam cleaning and regular HEPA vacuuming of carpeting and area rugs.
7. Revising HVAC system operation schedules and utilizing open window ventilation.

Remediation Work Completed Summer 2024:

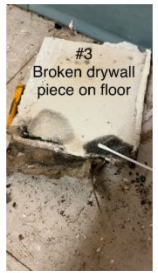
- All Air Handling Units and Associated Supply Duct work were professionally cleaned
- All the carpeted benches in the 4/5/6 wing were professionally removed
- General Summer cleaning in all classrooms
- Carpeting in Music Room was replaced with Tile Flooring (following 8/14/24 quarterly testing)
- Hospital grade HEPA Air Scrubbing Units were acquired to give an added accommodation for allergen sensitive individuals
- Carpets in Large Group Instruction Room, Library and Teachers cleaned
- Blinds in all classrooms disinfected

Ongoing Quarterly Monitoring

- August 2024-Hobomock
  - Two concerns identified
    - Music Room -
      - pipe leaking in ceiling above the door (vendor repaired 8-16-24)
      - Carpet replaced with Tile 8-21-24
    - Room 240 -
      - Dehumidifier Recommended for space
- November 2024 - Hobomock, Bryantville, North Pembroke, PCMS, PHS
  - No concerns or elevated levels noted at any of the buildings in the November testing
  - Recommended replacement of stained ceiling tiles across the district
  - Recommended maintenance staff continue vacuuming with HEPA vacuums and more thorough cleaning by staff of surfaces

What Happens when a Concern arises outside the Quarterly Testing at Hobomock?

- Concern was raised regarding a Supply Closet in the Large Group Instruction Room (9/2024)
  - Non-Student or Staff Space, no shared Air Exchange with the rest of the building
  - Serviced by 2 New Ductless Air Conditioning Systems with built in dehumidifiers that were replaced Summer of 2024
- Moldy conditions present in closet including drywall that was cut away when the units were replaced over the summer



Remediation- Completed 10/2024

Table 1
Spore Trap Air Sample Analysis Results

Sample #	Sample Location	Total Fungi (C/m^3)	Specific Species & levels of note
3782 1643 (01)	Assembly Room 203 – back middle area (outside containment)	147 C/m^3	Ascospores – 67 C/m^3 Aspergillus/Penicillium – 80 C/m^3 (Acceptable levels)
3782 1645 (02)	Room 203 closet – back side (post-test in containment)	133 C/m^3	Ascospores – 53 C/m^3 Aspergillus/Penicillium – 80 C/m^3 (Acceptable levels)
3782 1642 (03)	Room 203 closet – front corner (post-test in containment)	133 C/m^3	Ascospores – 53 C/m^3 Aspergillus/Penicillium – 80 C/m^3 (Acceptable levels)
3782 1661 (04)	Outside Ambient air (outside front entrance)	410 C/m^3	Ascospores – 210 C/m^3 Aspergillus/Penicillium – 67 C/m^3 Basidiospores – 80 C/m^3 Cladosporium – 53 C/m^3 (normal levels, typical for fall season)

Table 2
Tape Lift (Bio-Tape) Surface Sampling Analysis Results

Sample #	**Sample Location**	**Mold Spore Estimate /**	**Mycelial estimate** (Growth potential)
10T	Room 203 closet – lower front right wall	No fungi identified	None found
11T	Room 203 closet – Back wall heater vent on metal cover	No fungi identified	None found

Photo 1: View of room 203 closet containment with decontamination chamber during Assembly room 203 background spore trap sampling.

Photo 2: View of 203 closet front right corner showing wallboard removed and back side of exposed wallboard encapsulated. Remaining surfaces decontaminated.

Photo 3: View of room 203 closet into ceiling plenum. Ceiling board and moldy pipe insulation removed and surfaces decontaminated.

Photo 4: View of room 203 storage closet containment during post remediation spore trap sampling. Surfaces and heater fan cleaned free of suspect mold and debris.

Costs

To Date - August 2023-Present Day

- PMEC - Testing - Interpretation of Results - Recommendations for Remediation
  - $32,720.00
- Air Duct Services - Cleaning of Supply Duct Work at Hobomock
  - $67,183.52
- North Star - Cleaning and Servicing of Rooftop Units
  - $17,138.23
- North Star -Replacement of Ductless AC in LIR
  - $24,761.00
- Allied Environmental - Remediation of LIR
  - $6,800.00
- Related Service Providers for Cleaning - Stanley Steamer/ServPro
  - $5,415.07
- Replacement of Flooring in Music Room-
  - $12,441.40
- **TOTAL** **$166,459.22**

Anticipated Future Costs:

- PMEC Quarterly Monitoring -
  - $2,200/visit
- HVAC Replacement at Hobomock -
  - $1.3 - $1.6 million
- Continuation of Carpet Removal Project-
  - $100,000

The HVAC replacement is a compilation of funds requested as Capital at Town Meetings for the previous 4 years.

The flooring project is a request on the 2025 Spring Town Meeting Capital Article

February Testing

- Hobomock Quarterly Testing Completed 2-13-25
- Areas of Concern Tested 2-7-25
  - PHS - Materials in the Art Classroom & Stained Ceiling Tiles
  - PCMS - Stained Ceiling Tiles & Carpet in Lower Level Classroom
  - Hobomock - Carpets in 3 locations & area behind a bulletin board that had come off the wall
- Joint Labor Management Committee is meeting 3-5-25 to discuss results and next steps
- Results/Reports will be posted to the website following that meeting

Appendix

- Hobomock Building History
- ASHRAE Guidelines
- CDC Guidance Regarding Mold
- EPA Tools for Schools

Hobomock Building History

- Originally constructed in 1974 with and addition (4-5-6 wing) in 1997
- Brick and concrete construction
- Single Story - Flat Roof - Cement Slab