



Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools
 Ian Adams
 3020 S. Wrightsville Avenue
 Nags Head, NC

Project #: 25-2448
Project Location: Manteo High School
 829 Wingina Ave
 Manteo, NC 27954

Project Type: IAQ

PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	11/9/25	11/9/25	11/9/25	11/9/25	11/9/25
Spore Identification	1	2	3	4	5
	Advancement Center A200	Hall at A200	CR 201	Hall at C204	CR D202
<i>Cladosporium</i>	-	-	-	13	-
Ascospores	-	-	-	13	-
Basidiospores ²	27	-	53	13	80
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	-	-	120
Hyphal Elements ³	-	13	-	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrimum</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	27	27	53	40	200
Particulate Level	low	low-moderate	low	low-moderate	low-moderate
Date Analyzed:	11/18/25	11/18/25	11/18/25	11/18/25	11/18/25

Analyzed by: Cathy A. Richmond, B.S.

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Date Collected:	11/9/25	11/9/25	11/9/25	11/9/25	11/9/25
	6	7	8	9	10
Spore Identification	Hall at D204	Hall at C207/208	Hall at C212	CR C213	Hall at C215
<i>Cladosporium</i>	13	-	13	13	-
Ascospores	-	-	13	-	-
Basidiospores ²	40	27	53	40	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	13	-	27
<i>Penicillium/Aspergillus</i> Group ¹	-	-	53	-	-
Hyphal Elements ³	-	-	-	-	13
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	53	27	147	53	67
Particulate Level	low	low	low	low-moderate	low-moderate
Date Analyzed:	11/18/25	11/18/25	11/18/25	11/18/25	11/18/25

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Table 1: Non-Viable Air Samples

Date Collected:	11/9/25	11/9/25	11/9/25	11/9/25	11/9/25
	11	12	13	14	15
Spore Identification	CR C216	Hall at G119 Wrestling	Hall at Band Room	Band Room A102	Hall at A103
<i>Cladosporium</i>	-	40	53	13	133
Ascospores	-	-	-	-	27
Basidiospores ²	27	53	13	13	173
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	-	-	13
Hyphal Elements ³	-	-	13	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	27	93	80	27	347
Particulate Level	low-moderate	low-moderate	low-moderate	low	low-moderate
Date Analyzed:	11/18/25	11/18/25	11/18/25	11/18/25	11/18/25

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Table 1: Non-Viable Air Samples

Date Collected:	11/9/25	11/9/25	11/9/25	11/9/25	11/9/25
	16	17	18	19	20
Spore Identification	Gym	Cafeteria	Hall at C101	Media Center	Hall at D100
<i>Cladosporium</i>	147	13	27	13	13
Ascospores	13	27	13	-	13
Basidiospores ²	93	13	13	40	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	-	-	-
Hyphal Elements ³	-	-	-	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	253	53	53	53	53
Particulate Level	low	low	low	low	low-moderate
Date Analyzed:	11/18/25	11/18/25	11/18/25	11/18/25	11/18/25

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Date Collected:	11/9/25	11/9/25	11/9/25	11/9/25	11/9/25
	21	22	23	24	25
Spore Identification	CR D105	Hall at C104	Hall at V102	CR C103	Auditorium
<i>Cladosporium</i>	-	13	-	13	13
Ascospores	-	-	-	-	-
Basidiospores ²	40	27	13	40	53
Smuts, <i>Periconia</i> , Myxomycetes ⁴	-	-	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	40	-	-	-	-
Hyphal Elements ³	13	-	13	13	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	93	40	27	67	67
Particulate Level	low	low	low	low	low
Date Analyzed:	11/19/25	11/19/25	11/19/25	11/19/25	11/19/25

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Table 1: Non-Viable Air Samples

Date Collected:	11/9/25	11/9/25
	26	27
Spore Identification	A101 Admin Reception	Outdoor Air
<i>Cladosporium</i>	40	853
Ascospores	13	53
Basidiospores ²	27	853
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	160
<i>Penicillium/Aspergillus</i> Group ¹	-	-
Hyphal Elements ³	-	53
<i>Alternaria</i>	-	53
<i>Curvularia</i>	-	107
<i>Epicoccum</i>	-	-
<i>Cercospora</i>	-	-
<i>Arthrinium</i>	-	-
Clear Brown	-	-
Colorless	-	-
<i>Trichocladium</i>	-	-
Unidentified	-	-
<i>Ulocladium</i>	-	-
Torula	-	-
<i>Pithomyces</i>	-	-
Rust ⁵	-	-
<i>Drechslera/Bipolaris</i>	-	-
<i>Tetraploa</i>	-	-
<i>Chaetomium</i>	-	-
<i>Stachybotrys</i>	-	-
	-	-
Total Spores/m³	80	2133
Particulate Level	low-moderate	low-moderate
Date Analyzed:	11/19/25	11/19/25

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Report Information:

DETECTION LIMITS (DL) for samples are the minimum number of spores or colonies forming units that can be satisfactorily identified for each sample type.

SPORE TRAP SAMPLES: Calculations based on volume of air sampled & percentage of slide counted, i.e. DL = 1000 L / 75 L if 100% of the slide is counted.

CODE 11: Fungal content and/or particulate level on slide too heavy to identify and enumerate fungal content.

Footnotes:

- 1. Penicillium/Aspergillus group spores are characterized by their small size, round to ovoid shape, being unicellular and usually colorless to lightly pigmented. There are numerous genera of fungi whose spore morphology is similar to that of the Penicillium/Aspergillus type. Several common examples would be Acremonium, Paecilomyces, and Trichoderma. Although the majority of spores placed in this group are Penicillium, Aspergillus, or a combination of both, these are not the only two possibilities.
2. Basidiospores are primarily transported indoors from outdoor sources and rarely grow indoors. A high basidiospore count indoors can be indicative of a wood decay problem or wet soil, and should be verified if and an outdoor source of the spores is not present.
3. Hyphae are the tubular filaments of fungi. Hyphae can fragment and become airborne much like spores and are potentially allergenic.
4. The Smut, Periconia, Myxomycete group is a group composed of three different types of organisms whose spores have similar morphologies. Smuts are plant pathogens, Periconia is a relatively uncommon mold indoors, and Myxomycetes are not fungi, but slime molds. Although these organisms do not typically proliferate indoors, their spores are potentially allergenic.
5. Rusts are plant pathogens. These fungi do not typically grow indoors unless an infected plant is present. Rust spores are potentially allergenic.

Direct Microscopic Exam Reporting:

We use a 400x-600x magnification microscope.

Reporting Quantification Levels are as follows:

Table with 2 columns: Reporting Level, Quantitative Description. Rows include Occasional (1-10 per square inch), Few (11-100 per square inch), Moderate (101-1000 per square inch), and Numerous (More than 1,000 per square inch).

Submitted By Analyst:

Cathy A. Richmond (handwritten signature)

Cathy A. Richmond, BS

11/18/2025