



## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

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

**Project #:** 25-2445  
**Project Location:** Cape Hatteras Secondary  
 48576 NC HWY 12  
 Buxton, NC

**Project Type:** IAQ

**PO/Claim #:** -

**Table 1: Non-Viable Air Samples**

Date Collected:	11/8/25	11/8/25	11/8/25	11/8/25	11/8/25
	1	2	3	4	5
Spore Identification	Hall at Administration	Cafeteria	Hall at CR 302	CR 307	Hall at CR318
<i>Cladosporium</i>	27	27	27	13	-
Ascospores	-	-	13	-	-
Basidiospores <sup>2</sup>	40	13	-	27	53
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	27	13	-	-	13
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	27	-	-	-	-
Hyphal Elements <sup>3</sup>	27	-	13	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	13	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrimum</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>160</b>	<b>53</b>	<b>53</b>	<b>40</b>	<b>67</b>
<b>Particulate Level</b>	<b>low</b>	<b>low</b>	<b>low</b>	<b>low</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>

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 Buxton, NC  
 Project Type: IAQ  
 PO/Claim #: -

**Table 1: Non-Viable Air Samples**

Date Collected:	11/8/25	11/8/25	11/8/25	11/8/25
	6	7	8	9
Spore Identification	CR 317	Media Center	Hall at CR153	Hall at Locker Rooms
<i>Cladosporium</i>	-	-	53	40
Ascospores	13	-	27	40
Basidiospores <sup>2</sup>	27	40	253	173
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	-	27	27	13
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	-	-	133	13
Hyphal Elements <sup>3</sup>	-	-	13	-
<i>Alternaria</i>	-	-	-	-
<i>Curvularia</i>	-	-	13	-
<i>Epicoccum</i>	-	-	-	-
<i>Cercospora</i>	-	-	-	-
<i>Arthrimum</i>	-	-	-	-
Clear Brown	-	-	-	-
Colorless	-	-	-	-
<i>Trichocladium</i>	-	-	-	-
Unidentified	-	-	-	-
<i>Ulocladium</i>	-	-	-	-
<i>Torula</i>	-	-	-	-
<i>Pithomyces</i>	13	-	-	-
Rust <sup>5</sup>	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-
<i>Tetraploa</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-
	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>53</b>	<b>67</b>	<b>520</b>	<b>280</b>
<b>Particulate Level</b>	<b>low</b>	<b>low</b>	<b>low-moderate</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>

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

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**Table 1: Non-Viable Air Samples**

Date Collected:	11/8/25	11/8/25	11/8/25	11/8/25	11/8/25
	10	11	12	13	14
Spore Identification	Auxiliary Gym	Hall at CR150	CR 149	Music Room	Auditorium
<i>Cladosporium</i>	27	13	13	40	27
Ascospores	-	13	13	13	-
Basidiospores <sup>2</sup>	-	53	40	333	93
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	-	-	-	-	13
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	-	-	173	-	67
Hyphal Elements <sup>3</sup>	-	-	-	13	27
<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	-	-	13	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>27</b>	<b>80</b>	<b>253</b>	<b>400</b>	<b>227</b>
<b>Particulate Level</b>	<b>low-moderate</b>	<b>low</b>	<b>low</b>	<b>low</b>	<b>low-moderate</b>
<b>Date Analyzed:</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>

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**Table 1: Non-Viable Air Samples**

Date Collected:	11/8/25	11/8/25	11/8/25	11/8/25	11/8/25
	15	16	17	18	19
Spore Identification	Hall at CR205	CR 223	Hall at CR 352	Hall at CR359	CR 355
<i>Cladosporium</i>	-	-	-	-	13
Ascospores	-	-	-	-	-
Basidiospores <sup>2</sup>	93	27	27	-	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	13	13	-	40	-
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	-	-	-	600	-
Hyphal Elements <sup>3</sup>	-	13	-	-	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>	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>107</b>	<b>53</b>	<b>27</b>	<b>640</b>	<b>53</b>
<b>Particulate Level</b>	<b>low</b>	<b>low-moderate</b>	<b>low</b>	<b>low</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>

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**Table 1: Non-Viable Air Samples**

Date Collected:	11/8/25	11/8/25	11/8/25	11/8/25
	20	21	22	23
Spore Identification	CR 361	Auditorium Dressing Room	Hall at Weight Room	Outdoor Air
<i>Cladosporium</i>	-	-	93	427
Ascospores	-	-	13	160
Basidiospores <sup>2</sup>	27	80	293	8480
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	-	-	40	-
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	-	27	13	-
Hyphal Elements <sup>3</sup>	-	-	13	-
<i>Alternaria</i>	-	-	-	-
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	-	-	-
<i>Cercospora</i>	-	-	-	-
<i>Arthrimum</i>	-	-	-	-
Clear Brown	-	-	-	-
Colorless	-	-	-	-
<i>Trichocladium</i>	-	-	-	-
Unidentified	-	-	-	-
<i>Ulocladium</i>	-	-	-	-
<i>Torula</i>	-	-	-	-
<i>Pithomyces</i>	-	-	13	-
Rust <sup>5</sup>	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	53
<i>Tetraploa</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-
	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>27</b>	<b>107</b>	<b>480</b>	<b>9120</b>
<b>Particulate Level</b>	<b>low</b>	<b>low-moderate</b>	<b>low-moderate</b>	<b>low-moderate</b>
<b>Date Analyzed:</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>	<b>11/17/25</b>

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**Sample Number:** 8  
**Sample Location:** Hall at CR153  
**Date Collected:** 11/8/25  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 11/17/25

**Volume (L):** 75  
**Percentage of Slide Read:** 100.0%  
**Detection Limit:** 13.33  
**Particulate Level:** low-moderate  
**Notes:** -

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m <sup>3</sup>	10%
Ascospores	2	27	spores/m <sup>3</sup>	5%
Basidiospores	19	253	spores/m <sup>3</sup>	49%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	5%
<i>Penicillium/Aspergillus</i> Group	10	133	spores/m <sup>3</sup>	26%
Hyphal Elements	1	13	spores/m <sup>3</sup>	3%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>	1	13	spores/m <sup>3</sup>	3%
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>		-	spores/m <sup>3</sup>	-
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>39</b>	<b>520</b>	<b>spores/m<sup>3</sup></b>	

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

































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Project #: 25-2445

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

11/17/2025