LRC Indoor Testing and Research
200 Commonwealth Ct, Suite 101
Cary, NC 27511
(919) 342-4936

Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

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

Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
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
Spore Identification	1	2	3	4	5
	Gym	Cafeteria	Hall at Entry	Hall at 134	CR 130
Cladosporium	-	-	13	-	-
Ascospores	-	-	67	-	-
Basidiospores[2]	13	27	40	27	13
Smuts, *Periconia* , Myxomycetes[4]	-	-	27	-	-
Penicillium/Aspergillus Group[1]	-	-	13	-	-
Hyphal Elements[3]	-	-	40	13	13
Alternaria	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**13**	**27**	**200**	**40**	**27**
Particulate Level	**low**	**low**	**moderate**	**low**	**low**
Date Analyzed:	**11/12/25**	**11/12/25**	**11/12/25**	**11/12/25**	**11/12/25**

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
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
	6	7	8	9	10
Spore Identification	**Hall at 138**	**CR 145**	**Hall at 149**	**CR 147**	**Hall at 151**
Cladosporium	-	-	-	-	-
Ascospores	-	-	-	-	40
Basidiospores[2]	13	13	27	13	13
Smuts, *Periconia* , Myxomycetes[4]	-	-	-	-	-
Penicillium/Aspergillus Group[1]	13	-	-	-	-
Hyphal Elements[3]	-	13	-	-	-
Alternaria	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	13	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**27**	**40**	**27**	**13**	**53**
Particulate Level	**low**	**low-moderate**	**low**	**low-moderate**	**low-moderate**
Date Analyzed:	**11/12/25**	**11/12/25**	**11/12/25**	**11/12/25**	**11/12/25**

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
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
Spore Identification	11	12	13	14	15
	CR 154	Hall at 206	Hall at 208	Hall at 215	CR 203
Cladosporium	13	13	13	-	-
Ascospores	27	13	13	27	27
Basidiospores[2]	-	-	27	-	13
Smuts, *Periconia* , Myxomycetes[4]	-	40	-	13	-
Penicillium/Aspergillus Group[1]	-	-	-	13	-
Hyphal Elements[3]	-	-	-	-	-
Alternaria	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**40**	**67**	**53**	**53**	**40**
Particulate Level	**low**	**low**	**low**	**low**	**low**
Date Analyzed:	**11/12/25**	**11/12/25**	**11/12/25**	**11/12/25**	**11/12/25**

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	11/8/25	11/8/25	11/8/25
Spore Identification	16 CR 212	17 Media Center - 136	18 Outdoor Air
Cladosporium	-	-	320
Ascospores	13	40	1920
Basidiospores[2]	13	13	2187
Smuts, *Periconia* , Myxomycetes[4]	13	-	-
Penicillium/Aspergillus Group[1]	-	13	107
Hyphal Elements[3]	-	-	160
Alternaria	-	-	-
Curvularia	-	-	-
Epicoccum	-	-	-
Cercospora	-	-	-
Arthrinium	-	-	-
Clear Brown	-	-	-
Colorless	-	-	-
Trichocladium	-	-	-
Unidentified	-	-	-
Ulocladium	-	-	-
Torula	-	-	160
Pithomyces	-	-	-
Rust[5]	-	-	-
Drechslera/Bipolaris	-	-	53
Tetraploa	-	-	-
Chaetomium	-	-	-
Stachybotrys	-	-	-
	-	-	-
Total Spores/m^3	**40**	**67**	**4907**
Particulate Level	**low**	**low**	**low**
Date Analyzed:	**11/12/25**	**11/12/25**	**11/12/25**

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 1
Sample Location: Gym
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	1	13	spores/m^3	100%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**1**	**13**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 2
Sample Location: Cafeteria
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	2	27	spores/m^3	100%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**2**	**27**	**spores/m^3**	

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

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

Sample Number: 3
Sample Location: Hall at Entry
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium	1	13	spores/m^3	7%
Ascospores	5	67	spores/m^3	33%
Basidiospores	3	40	spores/m^3	20%
Smuts, *Periconia* , Myxomycetes	2	27	spores/m^3	13%
Penicillium/Aspergillus Group	1	13	spores/m^3	7%
Hyphal Elements	3	40	spores/m^3	20%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**15**	**200**	**spores/m^3**	

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 4
Sample Location: Hall at 134
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	2	27	spores/m^3	67%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements	1	13	spores/m^3	33%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**3**	**40**	**spores/m^3**	

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 5
Sample Location: CR 130
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	1	13	spores/m^3	50%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements	1	13	spores/m^3	50%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**2**	**27**	**spores/m^3**	

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
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Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 6
Sample Location: Hall at 138
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	1	13	spores/m^3	50%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	1	13	spores/m^3	50%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**2**	**27**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 7
Sample Location: CR 145
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	1	13	spores/m^3	33%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements	1	13	spores/m^3	33%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris	1	13	spores/m^3	33%
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**3**	**40**	**spores/m^3**	

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

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200 Commonwealth Ct, Suite 101
Cary, NC 27511
(919) 342-4936

Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

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

Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 8
Sample Location: Hall at 149
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	2	27	spores/m^3	100%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**2**	**27**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 9
Sample Location: CR 147
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores	1	13	spores/m^3	100%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**1**	**13**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 10
Sample Location: Hall at 151
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	3	40	spores/m^3	75%
Basidiospores	1	13	spores/m^3	25%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**4**	**53**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 11
Sample Location: CR 154
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium	1	13	spores/m^3	33%
Ascospores	2	27	spores/m^3	67%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**3**	**40**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 12
Sample Location: Hall at 206
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium	1	13	spores/m^3	20%
Ascospores	1	13	spores/m^3	20%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	3	40	spores/m^3	60%
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**5**	**67**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 13
Sample Location: Hall at 208
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium	1	13	spores/m^3	25%
Ascospores	1	13	spores/m^3	25%
Basidiospores	2	27	spores/m^3	50%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**4**	**53**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 14
Sample Location: Hall at 215
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	2	27	spores/m^3	50%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	1	13	spores/m^3	25%
Penicillium/Aspergillus Group	1	13	spores/m^3	25%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**4**	**53**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 15
Sample Location: CR 203
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	2	27	spores/m^3	67%
Basidiospores	1	13	spores/m^3	33%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**3**	**40**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 16
Sample Location: CR 212
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	1	13	spores/m^3	33%
Basidiospores	1	13	spores/m^3	33%
Smuts, *Periconia* , Myxomycetes	1	13	spores/m^3	33%
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**3**	**40**	**spores/m^3**	

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

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Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 17
Sample Location: Media Center - 136
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	3	40	spores/m^3	60%
Basidiospores	1	13	spores/m^3	20%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	1	13	spores/m^3	20%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**5**	**67**	**spores/m^3**	

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

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LRC Indoor Testing and Research
200 Commonwealth Ct, Suite 101
Cary, NC 27511
(919) 342-4936

Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

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

Project #: **25-2444**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 18
Sample Location: Outdoor Air
Date Collected: 11/8/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/12/25

Volume (L): 75
Percentage of Slide Read: 25.0%
Detection Limit: 53.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	6	320	spores/m^3	7%
Ascospores	36	1920	spores/m^3	39%
Basidiospores	41	2187	spores/m^3	45%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	2	107	spores/m^3	2%
Hyphal Elements	3	160	spores/m^3	3%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula	3	160	spores/m^3	3%
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris	1	53	spores/m^3	1%
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**92**	**4907**	**spores/m^3**	

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

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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Project #: 25-2444

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:

Reporting Level	Quantitative Description
Occasional	1-10 per square inch
Few	11-100 per square inch
Moderate	101-1000 per square inch
Numerous	More than 1,000 per square inch

Submitted By Analyst:

Cathy A Richmond

Cathy A. Richmond, BS
11/12/2025

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