



LRC Indoor Testing and Research
 140 Iowa Lane, Suite 102
 Cary, NC 27511
 (919) 342-4936

Certificate of Laboratory Analysis
Non-Viable Spore Trap Analysis

Dare Co. Schools
 Ian Adams
 3020 S. Wrightsville Ave.
 Nags Head, NC

Project #: 23-1842
Project Location: First Flight Elementary School

Project Type: IEQ
PO/Claim #:

Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23
	1	2	3	4	5
Spore Identification	Entry Hall at Cafeteria	Hall A	Hall B	B 148	Media
<i>Cladosporium</i>	13	107	53	13	27
Ascospores	-	27	40	13	-
Basidiospores ²	-	-	53	40	40
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	27	27	-
<i>Penicillium/Aspergillus</i> Group ¹	27	13	27	440	213
Hyphal Elements ³	-	-	13	13	-
<i>Alternaria</i>	27	-	-	-	-
<i>Curvularia</i>	147	-	-	13	13
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	13	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	13	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	213	160	213	573	293
Particulate Level	low	low	low	low	low-moderate
Date Analyzed:	8/23/23	8/23/23	8/23/23	8/23/23	8/23/23

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

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Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23
	6	7	8	9	10
Spore Identification	Hall at Media	Hall E	Hall C122	B102	Hall 105
<i>Cladosporium</i>	40	27	40	40	120
Ascospores	-	-	-	-	13
Basidiospores ²	27	-	-	13	67
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	53	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	13	67	53	13	120
Hyphal Elements ³	-	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>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	80	160	93	80	320
Particulate Level	low	low	low	low	low
Date Analyzed:	8/23/23	8/23/23	8/23/23	8/23/23	8/23/23

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Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23	8/23/23	8/23/23
	11	12	13	14	15
Spore Identification	Media	B148	Outdoor Air	B148 -Re-test after air cleaning	B148-further cleaning
<i>Cladosporium</i>	53	53	1787	40	53
Ascospores	-	-	347	-	-
Basidiospores ²	80	-	1040	27	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	-	187	-	13
<i>Penicillium/Aspergillus</i> Group ¹	93	8373	187	693	80
Hyphal Elements ³	13	-	107	-	27
<i>Alternaria</i>	13	-	160	-	-
<i>Curvularia</i>	13	-	160	-	13
<i>Epicoccum</i>	-	-	53	-	-
<i>Cercospora</i>	-	-	27	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	27	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	27	27	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	280	8427	4107	787	200
Particulate Level	low-moderate	low-moderate	low-moderate	low-moderate	low
Date Analyzed:	8/23/23	8/23/23	8/23/23	8/23/23	8/23/23

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PO/Claim #:

Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23		
	16	17	18		
Spore Identification	B 143	142	Media Center- after cleaning		
<i>Cladosporium</i>	13	53	53		
Ascospores	-	13	27		
Basidiospores ²	-	27	-		
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	-		
<i>Penicillium/Aspergillus</i> Group ¹	40	-	40		
Hyphal Elements ³	-	-	-		
<i>Alternaria</i>	-	-	-		
<i>Curvularia</i>	27	-	-		
<i>Epicoccum</i>	-	27	-		
<i>Cercospora</i>	-	-	-		
<i>Arthrinium</i>	-	-	-		
Clear Brown	-	-	-		
Colorless	-	-	-		
Trichocladium	-	-	-		
Unidentified	-	-	-		
<i>Ulocladium</i>	-	-	-		
Torula	-	-	-		
Pithomyces	13	-	-		
Rust ⁵	-	-	13		
<i>Drechslera/Bipolaris</i>	-	-	-		
<i>Tetraploa</i>	-	-	-		
<i>Chaetomium</i>	-	-	-		
<i>Stachybotrys</i>	-	-	-		
	-	-	-		
Total Spores/m³	93	133	133		
Particulate Level	low	low	low	#REF!	#REF!
Date Analyzed:	8/23/23	8/23/23	8/23/23	#REF!	#REF!

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Project Type: IEQ
PO/Claim #:

Sample Number: 3
Sample Location: Hall B
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/23/23

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m ³	25%
Ascospores	3	40	spores/m ³	19%
Basidiospores	4	53	spores/m ³	25%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	13%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	13%
Hyphal Elements	1	13	spores/m ³	6%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	16	213	spores/m³	

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Project Type: IEQ
PO/Claim #:

Sample Number: 4
Sample Location: B 148
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/23/23

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	1	13	spores/m ³	2%
Ascospores	1	13	spores/m ³	2%
Basidiospores	3	40	spores/m ³	7%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	5%
<i>Penicillium/Aspergillus</i> Group	33	440	spores/m ³	77%
Hyphal Elements	1	13	spores/m ³	2%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	spores/m ³	2%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	1	13	spores/m ³	2%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	43	573	spores/m³	

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Project Type: IEQ
PO/Claim #:

Sample Number: 6
Sample Location: Hall at Media
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/23/23

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	50%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	33%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	17%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	6	80	spores/m³	

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Project Type: IEQ
PO/Claim #:

Sample Number: 7
Sample Location: Hall E
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/23/23

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	17%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	4	53	spores/m ³	33%
<i>Penicillium/Aspergillus</i> Group	5	67	spores/m ³	42%
Hyphal Elements	1	13	spores/m ³	8%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	12	160	spores/m³	

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Project Type: IEQ
PO/Claim #:

Sample Number:	8	Volume (L):	75
Sample Location:	Halll C122	Percentage of Slide Read:	100.0%
Date Collected:	8/22/23	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low
Date Analyzed:	8/23/23	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	43%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	57%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	7	93	spores/m³	

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Project Type: IEQ
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Sample Number:	9	Volume (L):	75
Sample Location:	B102	Percentage of Slide Read:	100.0%
Date Collected:	8/22/23	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low
Date Analyzed:	8/23/23	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	50%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	17%
Hyphal Elements	1	13	spores/m ³	17%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	6	80	spores/m³	

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



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Project Type: IEQ
PO/Claim #:

Sample Number:	12	Volume (L):	75
Sample Location:	B148	Percentage of Slide Read:	25.0%
Date Collected:	8/22/23	Detection Limit:	53.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low-moderate
Date Analyzed:	8/23/23	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	1	53	spores/m ³	1%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	157	8373	spores/m ³	99%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	158	8427	spores/m³	

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

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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare Co. Schools
 Ian Adams
 3020 S. Wrightsville Ave.
 Nags Head, NC

Project #: 23-1842
Project Location: First Flight Elementary School

Project Type: IEQ
PO/Claim #:

Sample Number: 13
Sample Location: Outdoor Air
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/23/23

Volume (L): 75
Percentage of Slide Read: 50.0%
Detection Limit: 26.67
Particulate Level: low-moderate
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	67	1787	spores/m ³	44%
Ascospores	13	347	spores/m ³	8%
Basidiospores	39	1040	spores/m ³	25%
Smuts, <i>Periconia</i> , Myxomycetes	7	187	spores/m ³	5%
<i>Penicillium/Aspergillus</i> Group	7	187	spores/m ³	5%
Hyphal Elements	4	107	spores/m ³	3%
<i>Alternaria</i>	6	160	spores/m ³	4%
<i>Curvularia</i>	6	160	spores/m ³	4%
<i>Epicoccum</i>	2	53	spores/m ³	1%
<i>Cercospora</i>	1	27	spores/m ³	1%
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>	1	27	spores/m ³	1%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	1	27	spores/m ³	1%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	154	4107	spores/m³	

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



Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare Co. Schools
 Ian Adams
 3020 S. Wrightsville Ave.
 Nags Head, NC

Project #: 23-1842
Project Location: First Flight Elementary School

Project Type: IEQ
PO/Claim #:

Sample Number: 14
Sample Location: B148 -Re-test after air cleaning
Date Collected: 8/23/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/23/23

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>	3	40	spores/m ³	5%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	3%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	52	693	spores/m ³	88%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	2	27	spores/m ³	3%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	59	787	spores/m³	

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



Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare Co. Schools
 Ian Adams
 3020 S. Wrightsville Ave.
 Nags Head, NC

Project #: 23-1842
Project Location: First Flight Elementary School

Project Type: IEQ
PO/Claim #:

Sample Number: 16 **Volume (L):** 75
Sample Location: B 143 **Percentage of Slide Read:** 100.0%
Date Collected: 8/22/23 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low
Date Analyzed: 8/23/23 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	1	13	spores/m ³	14%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	43%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	2	27	spores/m ³	29%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>	1	13	spores/m ³	14%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	7	93	spores/m³	

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



LRC Indoor Testing and Research
 140 Iowa Lane, Suite 102
 Cary, NC 27511
 (919) 342-4936

Certificate of Laboratory Analysis
Direct Microscopic Examination

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

Project #: 23-1842
Project Location: First Flight Elementary School

Project Type: Clearance
PO/Claim #:

Table 2: Non-Viable Surface Samples

Sample Number: 20 Sample Location: B102 - cabinet base Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Occasional: Penicillium/Aspergillus Group Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/23/23 Date Analyzed: 8/23/23
Sample Number: 21 Sample Location: Room B148 - back of area rug - staining Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Moderate: Penicillium/Aspergillus Group Few: Hyphal Elements Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/23/23 Date Analyzed: 8/23/23
Sample Number: 22 Sample Location: B148 Throw Rug Top Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Numerous: Pithomyces Moderate: Curvularia Few: Penicillium/Aspergillus Group Occasional: Hyphal Elements Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/23/23 Date Analyzed: 8/23/23
Sample Number: 23 Sample Location: B148 Floor Panel - bottom Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Occasional: Penicillium/Aspergillus Group Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/23/23 Date Analyzed: 8/23/23

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LRC Indoor Testing and Research
 140 Iowa Lane, Suite 102
 Cary, NC 27511
 (919) 342-4936

Certificate of Laboratory Analysis
Direct Microscopic Examination

#REF!

Project #: #REF!

Project Location: 23-1842

Project Type:

PO/Claim #:

Table 2: Non-Viable Surface Samples

<p>Sample Number: 24 Sample Location: Teacher's Desk Chair Area: 1 in² Test Requested: Direct Microscopic Examination Results: Moderate: Penicillium/Aspergillus Group Occasional: Hyphal Elements</p>	<p>Date Collected: 8/23/23</p>
<p>Analyzed by: Cathy A. Richmond, B.S.</p>	<p>Date Analyzed: 8/23/23</p>
<p>Sample Number: 25 Sample Location: Media Center Computer Area: 1 in² Test Requested: Direct Microscopic Examination Results: No Fungal Spores Seen</p>	<p>Date Collected: 8/23/23</p>
<p>Analyzed by: Cathy A. Richmond, B.S.</p>	<p>Date Analyzed: 8/23/23</p>
<p>Sample Number: 26 Sample Location: Kitchen Cabinet Area: 1 in² Test Requested: Direct Microscopic Examination Results: Few: Chaetomium</p>	<p>Date Collected: 8/23/23</p>
<p>Analyzed by: Cathy A. Richmond, B.S.</p>	<p>Date Analyzed: 8/23/23</p>
<p>Sample Number: 27 Sample Location: B148 Carpet Square Back Area: 1 in² Test Requested: Direct Microscopic Examination Results: Occasional: Cladosporium</p>	<p>Date Collected: 8/23/23</p>
<p>Analyzed by: Cathy A. Richmond, B.S.</p>	<p>Date Analyzed: 8/23/23</p>

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Certificate of Laboratory Analysis

Project #: **23-1842**

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.

Chain of Custody available on request

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, BS

8/23/2023