



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

Project #: 24-3282
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Table 1: Non-Viable Air Samples

Date Collected:	11/14/24	11/14/24	11/14/24	11/14/24	11/14/24
	1	2	3	4	5
Spore Identification	Advanced Placement	Hall at 201	C201	D 202	Hall at D 202
<i>Cladosporium</i>	93	53	133	67	40
Ascospores	13	13	67	27	13
Basidiospores ²	-	-	80	-	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	53	-	13
<i>Penicillium/Aspergillus</i> Group ¹	-	13	40	13	80
Hyphal Elements ³	67	27	13	40	53
<i>Alternaria</i>	13	13	80	-	-
<i>Curvularia</i>	13	40	-	-	27
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	13	-	-
<i>Ulocladium</i>	-	27	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	13	-	27	27	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	213	200	507	173	253
Particulate Level	low-moderate	moderate	moderate	low-moderate	moderate
Date Analyzed:	11/24/24	11/24/24	11/24/24	11/24/24	11/24/24

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

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Table 1: Non-Viable Air Samples

Date Collected:	11/14/24	11/14/24	11/14/24	11/14/24	11/14/24
	6	7	8	9	10
Spore Identification	D200	Hall at 207	C 207	Hall at 209	Hall at 216
<i>Cladosporium</i>	27	53	27	40	27
Ascospores	27	27	-	13	-
Basidiospores ²	27	-	13	-	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	27	-	13	13	27
<i>Penicillium/Aspergillus</i> Group ¹	27	13	13	40	13
Hyphal Elements ³	67	40	-	13	27
<i>Alternaria</i>	-	13	13	13	13
<i>Curvularia</i>	40	80	40	-	27
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrrium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	13	-	-
<i>Ulocladium</i>	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	13	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	40	67	-	-	13
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	280	293	133	147	147
Particulate Level	low-moderate	low-moderate	low-moderate	low-moderate	low-moderate
Date Analyzed:	11/24/24	11/24/24	11/24/24	11/24/24	11/24/24

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Project #: 24-3282
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Table 1: Non-Viable Air Samples

Date Collected:	11/14/24	11/14/24	11/14/24	11/14/24	11/14/24
	11	12	13	14	15
Spore Identification	C218	Hall at 201	Hall at Band Room	Band Room	Hall at A 103
<i>Cladosporium</i>	40	53	93	27	40
Ascospores	13	27	-	13	27
Basidiospores ²	-	-	27	27	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	27	53	27
<i>Penicillium/Aspergillus</i> Group ¹	13	-	67	13	40
Hyphal Elements ³	-	27	107	53	93
<i>Alternaria</i>	-	13	13	-	67
<i>Curvularia</i>	-	27	120	-	67
<i>Epicoccum</i>	-	-	-	-	13
<i>Cercospora</i>	-	-	-	-	13
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	13	-	-
Unidentified	-	-	13	13	-
<i>Ulocladium</i>	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	27	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	27	27	53
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	67	147	533	227	453
Particulate Level	low	low	moderate	low-moderate	moderate
Date Analyzed:	11/24/24	11/24/24	11/24/24	11/24/24	11/24/24

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Project Type: IAQ
PO/Claim #:

Table 1: Non-Viable Air Samples

Date Collected:	11/14/24	11/14/24	11/14/24	11/14/24	11/14/24
	16	17	18	19	20
Spore Identification	Gym	Cafeteria	Hall at C 101	Media Center	Hall at D100
<i>Cladosporium</i>	67	67	147	107	107
Ascospores	-	-	-	13	-
Basidiospores ²	27	53	67	53	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	40	53	27	27
<i>Penicillium/Aspergillus</i> Group ¹	13	27	40	13	13
Hyphal Elements ³	27	53	40	40	-
<i>Alternaria</i>	13	-	-	-	13
<i>Curvularia</i>	67	40	13	13	13
<i>Epicoccum</i>	-	27	-	13	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	13	-	13	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
<i>Pithomyces</i>	-	-	27	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	40	40	-	13	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	253	360	387	307	200
Particulate Level	low	moderate	low-moderate	low-moderate	low-moderate
Date Analyzed:	11/24/24	11/24/24	11/24/24	11/24/24	11/24/24

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Table 1: Non-Viable Air Samples

Date Collected:	11/14/24	11/14/24	11/14/24	11/14/24	11/14/24
	21	22	23	24	25
Spore Identification	D102	Hall at C 104	Hall at V 102	C 106	Auditorium
<i>Cladosporium</i>	13	53	67	53	40
Ascospores	-	27	13	13	-
Basidiospores ²	27	40	40	27	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	67	27	27	67	13
<i>Penicillium/Aspergillus</i> Group ¹	27	13	27	27	40
Hyphal Elements ³	40	13	13	13	27
<i>Alternaria</i>	-	13	13	-	67
<i>Curvularia</i>	13	13	13	27	-
<i>Epicoccum</i>	-	-	-	-	13
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	13	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	13	13	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	40	-	-	13	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	240	200	227	253	53
Particulate Level	moderate	low-moderate	low-moderate	low-moderate	low
Date Analyzed:	11/24/24	11/24/24	11/24/24	11/24/24	11/24/24

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PO/Claim #:

Table 1: Non-Viable Air Samples

Date Collected:	11/14/24	11/14/24
	26	27
Spore Identification	First Floor Offices across from Elevator	Outdoor Air
<i>Cladosporium</i>	40	320
Ascospores	13	80
Basidiospores ²	67	67
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	80
<i>Penicillium/Aspergillus</i> Group ¹	13	133
Hyphal Elements ³	-	40
<i>Alternaria</i>	-	40
<i>Curvularia</i>	-	147
<i>Epicoccum</i>	-	27
<i>Cercospora</i>	-	-
<i>Arthrrium</i>	-	-
Clear Brown	-	-
Colorless	-	-
<i>Trichocladium</i>	-	-
Unidentified	-	-
<i>Ulocladium</i>	-	-
<i>Torula</i>	-	-
<i>Pithomyces</i>	-	13
Rust ⁵	-	27
<i>Drechslera/Bipolaris</i>	-	80
<i>Tetraploa</i>	-	-
<i>Chaetomium</i>	-	-
<i>Stachybotrys</i>	-	-
	-	-
Total Spores/m³	147	1053
Particulate Level	low	low
Date Analyzed:	11/24/24	11/24/24

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Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 1

Sample Location: Advanced Placement

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	7	93	spores/m ³	44%
Ascospores	1	13	spores/m ³	6%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	5	67	spores/m ³	31%
<i>Alternaria</i>	1	13	spores/m ³	6%
<i>Curvularia</i>	1	13	spores/m ³	6%
<i>Epicoecum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	6%
<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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Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m ³	27%
Ascospores	1	13	spores/m ³	7%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	7%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	7%
Hyphal Elements	2	27	spores/m ³	13%
<i>Alternaria</i>	1	13	spores/m ³	7%
<i>Curvularia</i>	3	40	spores/m ³	20%
<i>Epicoecum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</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>	2	27	spores/m ³	13%
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	15	200	spores/m³	

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Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	10	133	spores/m ³	26%
Ascospores	5	67	spores/m ³	13%
Basidiospores	6	80	spores/m ³	16%
Smuts, <i>Periconia</i> , Myxomycetes	4	53	spores/m ³	11%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	8%
Hyphal Elements	1	13	spores/m ³	3%
<i>Alternaria</i>	6	80	spores/m ³	16%
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoecum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified	1	13	spores/m ³	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	5%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	38	507	spores/m³	

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Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 4

Sample Location: D 202

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	5	67	spores/m ³	38%
Ascospores	2	27	spores/m ³	15%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	8%
Hyphal Elements	3	40	spores/m ³	23%
<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>Arthrrium</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	15%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	13	173	spores/m³	

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 5**Sample Location:** Hall at D 202**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**Volume (L):** 75**Percentage of Slide Read:** 100.0%**Detection Limit:** 13.33**Particulate Level:** moderate**Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	16%
Ascospores	1	13	spores/m ³	5%
Basidiospores	2	27	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	5%
<i>Penicillium/Aspergillus</i> Group	6	80	spores/m ³	32%
Hyphal Elements	4	53	spores/m ³	21%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	2	27	spores/m ³	11%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	19	253	spores/m³	

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



LRC Indoor Testing and Research

140 Iowa Lane, Suite 102

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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 6

Sample Location: D200

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	2	27	spores/m ³	10%
Ascospores	2	27	spores/m ³	10%
Basidiospores	2	27	spores/m ³	10%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	10%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	10%
Hyphal Elements	5	67	spores/m ³	24%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	3	40	spores/m ³	14%
<i>Epicoecum</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>	3	40	spores/m ³	14%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	21	280	spores/m³	

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

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 7**Sample Location:** Hall at 207**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**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 ³	18%
Ascospores	2	27	spores/m ³	9%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	5%
Hyphal Elements	3	40	spores/m ³	14%
<i>Alternaria</i>	1	13	spores/m ³	5%
<i>Curvularia</i>	6	80	spores/m ³	27%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</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>	5	67	spores/m ³	23%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	22	293	spores/m³	

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



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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 8

Sample Location: C 207

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	2	27	spores/m ³	20%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	10%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	10%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	10%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>	1	13	spores/m ³	10%
<i>Curvularia</i>	3	40	spores/m ³	30%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified	1	13	spores/m ³	10%
<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	10	133	spores/m³	

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

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 9**Sample Location:** Hall at 209**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**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	27%
Ascospores	1	13	spores/m ³	9%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	9%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	27%
Hyphal Elements	1	13	spores/m ³	9%
<i>Alternaria</i>	1	13	spores/m ³	9%
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	9%
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	11	147	spores/m³	

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



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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 10

Sample Location: Hall at 216

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	2	27	spores/m ³	18%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	18%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	9%
Hyphal Elements	2	27	spores/m ³	18%
<i>Alternaria</i>	1	13	spores/m ³	9%
<i>Curvularia</i>	2	27	spores/m ³	18%
<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	9%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	11	147	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 11
Sample Location: C218
Date Collected: 11/14/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/24/24

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	60%
Ascospores	1	13	spores/m ³	20%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	20%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoecum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</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	5	67	spores/m³	

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



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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 12

Sample Location: Hall at 201

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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	36%
Ascospores	2	27	spores/m ³	18%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	2	27	spores/m ³	18%
<i>Alternaria</i>	1	13	spores/m ³	9%
<i>Curvularia</i>	2	27	spores/m ³	18%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	11	147	spores/m³	

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

**LRC Indoor Testing and Research**

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 13**Sample Location:** Hall at Band Room**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**Volume (L):** 75**Percentage of Slide Read:** 100.0%**Detection Limit:** 13.33**Particulate Level:** moderate**Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	7	93	spores/m ³	18%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	5%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	5%
<i>Penicillium/Aspergillus</i> Group	5	67	spores/m ³	13%
Hyphal Elements	8	107	spores/m ³	20%
<i>Alternaria</i>	1	13	spores/m ³	3%
<i>Curvularia</i>	9	120	spores/m ³	23%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>	1	13	spores/m ³	3%
Unidentified	1	13	spores/m ³	3%
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>	2	27	spores/m ³	5%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	2	27	spores/m ³	5%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	40	533	spores/m³	

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



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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 14

Sample Location: Band Room

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	2	27	spores/m ³	12%
Ascospores	1	13	spores/m ³	6%
Basidiospores	2	27	spores/m ³	12%
Smuts, <i>Periconia</i> , Myxomycetes	4	53	spores/m ³	24%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	6%
Hyphal Elements	4	53	spores/m ³	24%
<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>Arthrrium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified	1	13	spores/m ³	6%
<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	12%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	17	227	spores/m³	

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

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 15**Sample Location:** Hall at A 103**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**Volume (L):** 75**Percentage of Slide Read:** 100.0%**Detection Limit:** 13.33**Particulate Level:** moderate**Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	9%
Ascospores	2	27	spores/m ³	6%
Basidiospores	1	13	spores/m ³	3%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	6%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	9%
Hyphal Elements	7	93	spores/m ³	21%
<i>Alternaria</i>	5	67	spores/m ³	15%
<i>Curvularia</i>	5	67	spores/m ³	15%
<i>Epicoccum</i>	1	13	spores/m ³	3%
<i>Cercospora</i>	1	13	spores/m ³	3%
<i>Arthrrium</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>	4	53	spores/m ³	12%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	34	453	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**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:**

Sample Number: 16
Sample Location: Gym
Date Collected: 11/14/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/24/24

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>	5	67	spores/m ³	26%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	5%
Hyphal Elements	2	27	spores/m ³	11%
<i>Alternaria</i>	1	13	spores/m ³	5%
<i>Curvularia</i>	5	67	spores/m ³	26%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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>	3	40	spores/m ³	16%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	19	253	spores/m³	

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

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 17**Sample Location:** Cafeteria**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**Volume (L):** 75**Percentage of Slide Read:** 100.0%**Detection Limit:** 13.33**Particulate Level:** moderate**Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	5	67	spores/m ³	19%
Ascospores		-	spores/m ³	-
Basidiospores	4	53	spores/m ³	15%
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	11%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	7%
Hyphal Elements	4	53	spores/m ³	15%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	3	40	spores/m ³	11%
<i>Epicoccum</i>	2	27	spores/m ³	7%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified	1	13	spores/m ³	4%
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	3	40	spores/m ³	11%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	27	360	spores/m³	

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

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 18**Sample Location:** Hall at C 101**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**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>	11	147	spores/m ³	38%
Ascospores		-	spores/m ³	-
Basidiospores	5	67	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	4	53	spores/m ³	14%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	10%
Hyphal Elements	3	40	spores/m ³	10%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	spores/m ³	3%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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>	2	27	spores/m ³	7%
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	29	387	spores/m³	

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

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 19**Sample Location:** Media Center**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**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>	8	107	spores/m ³	35%
Ascospores	1	13	spores/m ³	4%
Basidiospores	4	53	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	9%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	4%
Hyphal Elements	3	40	spores/m ³	13%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	spores/m ³	4%
<i>Epicoccum</i>	1	13	spores/m ³	4%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified	1	13	spores/m ³	4%
<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	4%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	23	307	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 20

Sample Location: Hall at D100

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	8	107	spores/m ³	53%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	13%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	7%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>	1	13	spores/m ³	7%
<i>Curvularia</i>	1	13	spores/m ³	7%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	15	200	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 21

Sample Location: D102

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: moderate

Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	1	13	spores/m ³	6%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes	5	67	spores/m ³	28%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	11%
Hyphal Elements	3	40	spores/m ³	17%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	spores/m ³	6%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified	1	13	spores/m ³	6%
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	3	40	spores/m ³	17%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	18	240	spores/m³	

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

**LRC Indoor Testing and Research**

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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 22**Sample Location:** Hall at C 104**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**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 ³	27%
Ascospores	2	27	spores/m ³	13%
Basidiospores	3	40	spores/m ³	20%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	13%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	7%
Hyphal Elements	1	13	spores/m ³	7%
<i>Alternaria</i>	1	13	spores/m ³	7%
<i>Curvularia</i>	1	13	spores/m ³	7%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</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	15	200	spores/m³	

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



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Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 23

Sample Location: Hall at V 102

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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>	5	67	spores/m ³	29%
Ascospores	1	13	spores/m ³	6%
Basidiospores	3	40	spores/m ³	18%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	12%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	12%
Hyphal Elements	1	13	spores/m ³	6%
<i>Alternaria</i>	1	13	spores/m ³	6%
<i>Curvularia</i>	1	13	spores/m ³	6%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	6%
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	17	227	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 24

Sample Location: C 106

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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 ³	21%
Ascospores	1	13	spores/m ³	5%
Basidiospores	2	27	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes	5	67	spores/m ³	26%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	11%
Hyphal Elements	1	13	spores/m ³	5%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	2	27	spores/m ³	11%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	5%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	1	13	spores/m ³	5%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	19	253	spores/m³	

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



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Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 25
Sample Location: Auditorium
Date Collected: 11/14/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/24/24

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	25%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	25%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	2	27	spores/m ³	50%
<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>Arthrimum</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	4	53	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

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S.Wrightsville Ave

Nags Head, NC

Project #: 24-3282

Project Location: Manteo High School

Project Type: IAQ

PO/Claim #:

Sample Number: 26

Sample Location: First Floor Offices across from Elevator

Date Collected: 11/14/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/24/24

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	27%
Ascospores	1	13	spores/m ³	9%
Basidiospores	5	67	spores/m ³	45%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	9%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	9%
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>Arthrrium</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	11	147	spores/m³	

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

**Certificate of Laboratory Analysis**

Non-Viable Spore Trap Analysis

Dare County Schools**Ian Adams****3020 S.Wrightsville Ave****Nags Head, NC****Project #: 24-3282****Project Location:** Manteo High School**Project Type:** IAQ**PO/Claim #:****Sample Number:** 27**Sample Location:** Outdoor Air**Date Collected:** 11/14/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/24/24**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>	24	320	spores/m ³	30%
Ascospores	6	80	spores/m ³	8%
Basidiospores	5	67	spores/m ³	6%
Smuts, <i>Periconia</i> , Myxomycetes	6	80	spores/m ³	8%
<i>Penicillium/Aspergillus</i> Group	10	133	spores/m ³	13%
Hyphal Elements	3	40	spores/m ³	4%
<i>Alternaria</i>	3	40	spores/m ³	4%
<i>Curvularia</i>	11	147	spores/m ³	14%
<i>Epicoccum</i>	2	27	spores/m ³	3%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	1%
Rust	2	27	spores/m ³	3%
<i>Drechslera/Bipolaris</i>	6	80	spores/m ³	8%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	79	1053	spores/m³	

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



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Project #: **24-3282**

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

11/24/2024