



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. wilmington Avenue
 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Table 1: Non-Viable Air Samples

Date Collected:	5/3/24	5/3/24	5/3/24	5/3/24	5/3/24
	1	2	3	4	5
Spore Identification	Rotundra	Auditorium	Gymnasium	Cafeteria	Hall at A 107
<i>Cladosporium</i>	40	27	80	40	27
Ascospores	53	27	13	13	13
Basidiospores ²	-	53	-	13	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	27	13	13	-
<i>Penicillium/Aspergillus</i> Group ¹	40	40	27	-	40
Hyphal Elements ³	-	-	-	-	27
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	13	-	-	-
<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	133	187	133	80	107
Particulate Level	low	low-moderate	low-moderate	low	low
Date Analyzed:	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24

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

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Table 1: Non-Viable Air Samples

Date Collected:	5/3/24	5/3/24	5/3/24	5/3/24	5/3/24
	6	7	8	9	10
Spore Identification	Hall at B 103	CR B 102	Counceling Center	Hall at B 302	CR B308
<i>Cladosporium</i>	40	13	93	53	53
Ascospores	27	27	40	13	-
Basidiospores ²	13	-	-	13	40
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	27	27	40	-	27
<i>Penicillium/Aspergillus</i> Group ¹	40	27	40	-	-
Hyphal Elements ³	13	-	13	-	-
<i>Alternaria</i>	-	13	13	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	27	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	160	107	280	93	120
Particulate Level	low-moderate	low	moderate	low-moderate	low-moderate
Date Analyzed:	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24

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Table 1: Non-Viable Air Samples

Date Collected:	5/3/24	5/3/24	5/3/24	5/3/24	5/3/24
	11	12	13	14	15
Spore Identification	Hall at B 314	CR B 313	Media Center	Hall at B 215	Hall at B 204
<i>Cladosporium</i>	80	107	27	13	53
Ascospores	-	13	13	13	13
Basidiospores ²	13	-	-	13	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	13	13	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	13	-	13
Hyphal Elements ³	13	27	-	13	40
<i>Alternaria</i>	-	13	-	13	13
<i>Curvularia</i>	-	13	-	-	-
<i>Epicoccum</i>	-	13	-	-	13
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	13	13	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	13	-	-	13
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	13	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	120	227	80	80	173
Particulate Level	low-moderate	low-moderate	low-moderate	moderate	moderate
Date Analyzed:	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24

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Table 1: Non-Viable Air Samples

Date Collected:	5/3/24	5/3/24	5/3/24	5/3/24	5/3/24
	16	17	18	19	20
Spore Identification	CR B 210	Hall at D 108	CR D 113	Hall at Elevator	Hall at C 302
<i>Cladosporium</i>	80	93	40	240	187
Ascospores	13	-	40	27	-
Basidiospores ²	53	53	27	27	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	67	67	67	27	107
<i>Penicillium/Aspergillus</i> Group ¹	40	27	13	40	27
Hyphal Elements ³	53	27	13	40	53
<i>Alternaria</i>	53	40	-	80	107
<i>Curvularia</i>	27	13	-	-	13
<i>Epicoccum</i>	-	-	-	40	13
<i>Cercospora</i>	-	-	-	-	13
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	13	-	13	13
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	27	-	13	13
Rust ⁵	-	-	-	13	-
<i>Drechslera/Bipolaris</i>	-	13	-	67	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	387	373	200	627	573
Particulate Level	moderate	moderate	low-moderate	moderate	moderate-heavy
Date Analyzed:	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24

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Date Collected:	5/3/24	5/3/24	5/3/24	5/3/24	5/3/24
	21	22	23	24	25
Spore Identification	CRC 310	Hall at C 317	CR 102	Hall at C 215/216	Hall at C 204
<i>Cladosporium</i>	27	40	107	67	53
Ascospores	-	67	40	-	13
Basidiospores ²	40	40	53	27	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	27	13	27	27	13
<i>Penicillium/Aspergillus</i> Group ¹	80	27	80	67	13
Hyphal Elements ³	40	13	40	27	13
<i>Alternaria</i>	-	-	13	13	13
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	13	27	-	13
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	27	-	-
Unidentified	13	13	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	40	-	13
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	227	227	453	227	200
Particulate Level	low-moderate	moderate	moderate	low-moderate	moderate
Date Analyzed:	5/7/24	5/7/24	5/7/24	5/7/24	5/7/24

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Table 1: Non-Viable Air Samples

Date Collected:	5/3/24	5/3/24
Spore Identification	26	27
	CR 201	Outdoor Air
<i>Cladosporium</i>	27	1920
Ascospores	-	3360
Basidiospores ²	53	1013
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	27	160
<i>Penicillium/Aspergillus</i> Group ¹	53	320
Hyphal Elements ³	-	53
<i>Alternaria</i>	-	160
<i>Curvularia</i>	-	53
<i>Epicoccum</i>	-	-
<i>Cercospora</i>	-	-
<i>Arthrinium</i>	-	-
Clear Brown	-	-
Colorless	-	-
Trichocladium	-	-
Unidentified	-	-
<i>Ulocladium</i>	-	-
Torula	-	-
Pithomyces	-	-
Rust ⁵	-	53
<i>Drechslera/Bipolaris</i>	-	53
<i>Tetraploa</i>	-	-
<i>Chaetomium</i>	-	-
<i>Stachybotrys</i>	-	-
	-	-
Total Spores/m³	160	7147
Particulate Level	low-moderate	low-moderate
Date Analyzed:	5/7/24	5/7/24

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PO/Claim #:

Sample Number: 1
Sample Location: Rotundra
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	30%
Ascospores	4	53	spores/m ³	40%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	30%
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	10	133	spores/m³	

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PO/Claim #:

Sample Number:	2	Volume (L):	75
Sample Location:	Auditorium	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low-moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	14%
Ascospores	2	27	spores/m ³	14%
Basidiospores	4	53	spores/m ³	29%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	14%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	21%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	7%
<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	14	187	spores/m³	

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



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Project Type: IAQ
PO/Claim #:

Sample Number:	4	Volume (L):	75
Sample Location:	Cafeteria	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	50%
Ascospores	1	13	spores/m ³	17%
Basidiospores	1	13	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
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: IAQ
PO/Claim #:

Sample Number: 5
Sample Location: Hall at A 107
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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>	2	27	spores/m ³	25%
Ascospores	1	13	spores/m ³	13%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	38%
Hyphal Elements	2	27	spores/m ³	25%
<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	8	107	spores/m³	

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



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Project Type: IAQ
PO/Claim #:

Sample Number: 6
Sample Location: Hall at B 103
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	25%
Ascospores	2	27	spores/m ³	17%
Basidiospores	1	13	spores/m ³	8%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	25%
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	

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



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Non-Viable Spore Trap Analysis

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

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 7
Sample Location: CR B 102
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	13%
Ascospores	2	27	spores/m ³	25%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	25%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	25%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>	1	13	spores/m ³	13%
<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	8	107	spores/m³	

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

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Non-Viable Spore Trap Analysis

Dare County Schools
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Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 8
Sample Location: Counseling Center
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	33%
Ascospores	3	40	spores/m ³	14%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	14%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	14%
Hyphal Elements	1	13	spores/m ³	5%
<i>Alternaria</i>	1	13	spores/m ³	5%
<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	2	27	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>	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	21	280	spores/m³	

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

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Non-Viable Spore Trap Analysis

Dare County Schools
 Ian Adams
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 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 9
Sample Location: Hall at B 302
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	57%
Ascospores	1	13	spores/m ³	14%
Basidiospores	1	13	spores/m ³	14%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
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	1	13	spores/m ³	14%
<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	

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



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Non-Viable Spore Trap Analysis

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

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 10 **Volume (L):** 75
Sample Location: CR B308 **Percentage of Slide Read:** 100.0%
Date Collected: 5/3/24 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low-moderate
Date Analyzed: 5/7/24 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m ³	44%
Ascospores		-	spores/m ³	-
Basidiospores	3	40	spores/m ³	33%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	22%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
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	9	120	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools
Ian Adams
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Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number:	11	Volume (L):	75
Sample Location:	Hall at B 314	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low-moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	6	80	spores/m ³	67%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	11%
<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	1	13	spores/m ³	11%
<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	9	120	spores/m³	

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



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Non-Viable Spore Trap Analysis

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Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number:	12	Volume (L):	75
Sample Location:	CR B 313	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low-moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	8	107	spores/m ³	47%
Ascospores	1	13	spores/m ³	6%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	6%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	2	27	spores/m ³	12%
<i>Alternaria</i>	1	13	spores/m ³	6%
<i>Curvularia</i>	1	13	spores/m ³	6%
<i>Epicoccum</i>	1	13	spores/m ³	6%
<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	1	13	spores/m ³	6%
<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	

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Dare County Schools
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Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number:	13	Volume (L):	75
Sample Location:	Media Center	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low-moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	33%
Ascospores	1	13	spores/m ³	17%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	17%
<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>	1	13	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	6	80	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools
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Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number:	14	Volume (L):	75
Sample Location:	Hall at B 215	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	1	13	spores/m ³	17%
Ascospores	1	13	spores/m ³	17%
Basidiospores	1	13	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	17%
<i>Alternaria</i>	1	13	spores/m ³	17%
<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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Non-Viable Spore Trap Analysis

Dare County Schools
 Ian Adams
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Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 15
Sample Location: Hall at B 204
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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>	4	53	spores/m ³	31%
Ascospores	1	13	spores/m ³	8%
Basidiospores	1	13	spores/m ³	8%
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>	1	13	spores/m ³	8%
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	8%
<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	8%
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	13	173	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. wilmington Avenue
 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 17
Sample Location: Hall at D 108
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	25%
Ascospores		-	spores/m ³	-
Basidiospores	4	53	spores/m ³	14%
Smuts, <i>Periconia</i> , Myxomycetes	5	67	spores/m ³	18%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	7%
Hyphal Elements	2	27	spores/m ³	7%
<i>Alternaria</i>	3	40	spores/m ³	11%
<i>Curvularia</i>	1	13	spores/m ³	4%
<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	1	13	spores/m ³	4%
<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>	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	28	373	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. wilmington Avenue
 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 18
Sample Location: CR D 113
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	20%
Ascospores	3	40	spores/m ³	20%
Basidiospores	2	27	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes	5	67	spores/m ³	33%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	7%
Hyphal Elements	1	13	spores/m ³	7%
<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	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. wilmington Avenue
Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number:	19	Volume (L):	75
Sample Location:	Hall at Elevator	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	18	240	spores/m ³	38%
Ascospores	2	27	spores/m ³	4%
Basidiospores	2	27	spores/m ³	4%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	4%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	6%
Hyphal Elements	3	40	spores/m ³	6%
<i>Alternaria</i>	6	80	spores/m ³	13%
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	3	40	spores/m ³	6%
<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	1	13	spores/m ³	2%
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>	1	13	spores/m ³	2%
Rust	1	13	spores/m ³	2%
<i>Drechslera/Bipolaris</i>	5	67	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	47	627	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. wilmington Avenue
 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 22
Sample Location: Hall at C 317
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	18%
Ascospores	5	67	spores/m ³	29%
Basidiospores	3	40	spores/m ³	18%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	6%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	12%
Hyphal Elements	1	13	spores/m ³	6%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	6%
<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	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>		-	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. wilmington Avenue
 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 23 **Volume (L):** 75
Sample Location: CR 102 **Percentage of Slide Read:** 100.0%
Date Collected: 5/3/24 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** moderate
Date Analyzed: 5/7/24 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	8	107	spores/m ³	24%
Ascospores	3	40	spores/m ³	9%
Basidiospores	4	53	spores/m ³	12%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	6%
<i>Penicillium/Aspergillus</i> Group	6	80	spores/m ³	18%
Hyphal Elements	3	40	spores/m ³	9%
<i>Alternaria</i>	1	13	spores/m ³	3%
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	2	27	spores/m ³	6%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>	2	27	spores/m ³	6%
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	9%
<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.



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Non-Viable Spore Trap Analysis

Dare County Schools
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 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number:	24	Volume (L):	75
Sample Location:	Hall at C 215/216	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	low-moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	5	67	spores/m ³	29%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	12%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	12%
<i>Penicillium/Aspergillus</i> Group	5	67	spores/m ³	29%
Hyphal Elements	2	27	spores/m ³	12%
<i>Alternaria</i>	1	13	spores/m ³	6%
<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	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
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Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number:	25	Volume (L):	75
Sample Location:	Hall at C 204	Percentage of Slide Read:	100.0%
Date Collected:	5/3/24	Detection Limit:	13.33
Test Requested:	Non-viable spore trap analysis	Particulate Level:	moderate
Date Analyzed:	5/7/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	20%
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	4	53	spores/m ³	27%
Hyphal Elements	1	13	spores/m ³	7%
<i>Alternaria</i>	2	27	spores/m ³	13%
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	7%
<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	1	13	spores/m ³	7%
<i>Drechslera/Bipolaris</i>	1	13	spores/m ³	7%
<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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Dare County Schools
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Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 26
Sample Location: CR 201
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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	17%
Ascospores		-	spores/m ³	-
Basidiospores	4	53	spores/m ³	33%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	33%
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	12	160	spores/m³	

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

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Non-Viable Spore Trap Analysis

Dare County Schools
 Ian Adams
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 Nags Head, NC

Project #: 24-2417
Project Location: First Flight High School

Project Type: IAQ
PO/Claim #:

Sample Number: 27
Sample Location: Outdoor Air
Date Collected: 5/3/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/7/24

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	36	1920	spores/m ³	27%
Ascospores	63	3360	spores/m ³	47%
Basidiospores	19	1013	spores/m ³	14%
Smuts, <i>Periconia</i> , Myxomycetes	3	160	spores/m ³	2%
<i>Penicillium/Aspergillus</i> Group	6	320	spores/m ³	4%
Hyphal Elements	1	53	spores/m ³	1%
<i>Alternaria</i>	3	160	spores/m ³	2%
<i>Curvularia</i>	1	53	spores/m ³	1%
<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	1	53	spores/m ³	1%
<i>Drechslera/Bipolaris</i>	1	53	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	134	7147	spores/m³	

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



Certificate of Laboratory Analysis

Project #: **24-2417**

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

5/7/2024