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
_

Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	5/4/24	5/4/24	5/4/24	5/4/24	5/4/24
	1	2	3	4	5
Spore Identification	**Gym**	**Cafeteria**	**Hall at Entry**	**Hall at 134**	**CR 133**
Cladosporium	40	27	40	27	13
Ascospores	27	13	13	27	13
Basidiospores[2]	27	27	-	27	13
Smuts, *Periconia* , Myxomycetes[4]	13	-	13	-	-
Penicillium/Aspergillus Group[1]	27	-	13	-	-
Hyphal Elements[3]	13	-	27	-	-
Alternaria	-	-	-	-	-
Curvularia	-	13	-	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**147**	**80**	**107**	**80**	**40**
Particulate Level	**low**	**low**	**low-moderate**	**low**	**low**
Date Analyzed:	**5/8/24**	**5/8/24**	**5/8/24**	**5/8/24**	**5/8/24**

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	5/4/24	5/4/24	5/4/24	5/4/24	5/4/24
	6	7	8	9	10
Spore Identification	**Hall at 138**	**CR 141**	**Hall at 149**	**CR 150**	**Hall at 151**
Cladosporium	27	40	27	40	53
Ascospores	13	13	-	-	-
Basidiospores[2]	27	13	13	13	27
Smuts, *Periconia* , Myxomycetes[4]	-	-	-	-	27
Penicillium/Aspergillus Group[1]	27	-	13	13	13
Hyphal Elements[3]	-	-	-	13	-
Alternaria	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**93**	**67**	**53**	**80**	**120**
Particulate Level	**low**	**low**	**low**	**low**	**low**
Date Analyzed:	**5/8/24**	**5/8/24**	**5/8/24**	**5/8/24**	**5/8/24**

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	5/4/24	5/4/24	5/4/24	5/4/24	5/4/24
	11	12	13	14	15
Spore Identification	**CR 152**	**Hall at CR 206**	**Hall at CR 208**	**Hall at CR 215**	**CR 211**
Cladosporium	40	27	53	40	40
Ascospores	13	13	-	13	-
Basidiospores[2]	13	13	13	-	13
Smuts, *Periconia* , Myxomycetes[4]	27	27	13	-	27
Penicillium/Aspergillus Group[1]	-	13	67	-	13
Hyphal Elements[3]	13	-	13	13	-
Alternaria	-	-	-	-	-
Curvularia	-	-	13	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**107**	**93**	**173**	**67**	**93**
Particulate Level	**low**	**low**	**low-moderate**	**low-moderate**	**low**
Date Analyzed:	**5/8/24**	**5/8/24**	**5/8/24**	**5/8/24**	**5/8/24**

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
Project Type: IEQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	5/4/24	5/4/24	5/4/24
	16	17	18
Spore Identification	**CR 212**	**Media Center**	**Outdoor Air**
Cladosporium	40	-	413
Ascospores	-	13	1253
Basidiospores[2]	67	-	80
Smuts, *Periconia* , Myxomycetes[4]	27	-	213
Penicillium/Aspergillus Group[1]	53	40	80
Hyphal Elements[3]	-	-	67
Alternaria	-	-	-
Curvularia	-	-	27
Epicoccum	-	-	-
Cercospora	-	-	13
Arthrinium	-	-	-
Clear Brown	-	-	-
Colorless	-	-	-
Trichocladium	-	-	-
Unidentified	-	-	-
Ulocladium	-	-	-
Torula	-	-	-
Pithomyces	-	-	-
Rust[5]	-	-	13
Drechslera/Bipolaris	-	-	-
Tetraploa	-	-	-
Chaetomium	-	-	-
Stachybotrys	-	-	-
	-	-	-
Total Spores/m^3	**187**	**53**	**2160**
Particulate Level	**low-moderate**	**low-moderate**	**low-moderate**
Date Analyzed:	**5/8/24**	**5/8/24**	**5/8/24**

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Sample Number:	1	**Volume (L):**	75
Sample Location:	Gym	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	27%
Ascospores	2	27	spores/m^3	18%
Basidiospores	2	27	spores/m^3	18%
Smuts, *Periconia* , Myxomycetes	1	13	spores/m^3	9%
Penicillium/Aspergillus Group	2	27	spores/m^3	18%
Hyphal Elements	1	13	spores/m^3	9%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**11**	**147**	**spores/m^3**	

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Project Type: IEQ
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Sample Number:	2	**Volume (L):**	75
Sample Location:	Cafeteria	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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Sample Number:	3	**Volume (L):**	75
Sample Location:	Hall at Entry	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low-moderate
Date Analyzed:	5/8/24	**Notes:**	_

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	38%
Ascospores	1	13	spores/m^3	13%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	1	13	spores/m^3	13%
Penicillium/Aspergillus Group	1	13	spores/m^3	13%
Hyphal Elements	2	27	spores/m^3	25%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**8**	**107**	**spores/m^3**	

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Sample Number:	4	**Volume (L):**	75
Sample Location:	Hall at 134	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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Project Type: IEQ
PO/Claim #: _

Sample Number:	5	**Volume (L):**	75
Sample Location:	CR 133	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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Sample Number:	6	**Volume (L):**	75
Sample Location:	Hall at 138	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Sample Number:	7	**Volume (L):**	75
Sample Location:	CR 141	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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
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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Sample Number:	8	**Volume (L):**	75
Sample Location:	Hall at 149	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Sample Number:	9	**Volume (L):**	75
Sample Location:	CR 150	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Sample Number:	10	**Volume (L):**	75
Sample Location:	Hall at 151	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

Spore Identification	Count	Results	Units	Percentage
Cladosporium	4	53	spores/m^3	44%
Ascospores		-	spores/m^3	-
Basidiospores	2	27	spores/m^3	22%
Smuts, *Periconia* , Myxomycetes	2	27	spores/m^3	22%
Penicillium/Aspergillus Group	1	13	spores/m^3	11%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**9**	**120**	**spores/m^3**	

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Sample Number:	11	**Volume (L):**	75
Sample Location:	CR 152	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	38%
Ascospores	1	13	spores/m^3	13%
Basidiospores	1	13	spores/m^3	13%
Smuts, *Periconia* , Myxomycetes	2	27	spores/m^3	25%
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements	1	13	spores/m^3	13%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**8**	**107**	**spores/m^3**	

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Sample Number:	12	**Volume (L):**	75
Sample Location:	Hall at CR 206	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Sample Number:	13	**Volume (L):**	75
Sample Location:	Hall at CR 208	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low-moderate
Date Analyzed:	5/8/24	**Notes:**	_

Spore Identification	Count	Results	Units	Percentage
Cladosporium	4	53	spores/m^3	31%
Ascospores		-	spores/m^3	-
Basidiospores	1	13	spores/m^3	8%
Smuts, *Periconia* , Myxomycetes	1	13	spores/m^3	8%
Penicillium/Aspergillus Group	5	67	spores/m^3	38%
Hyphal Elements	1	13	spores/m^3	8%
Alternaria		-	spores/m^3	-
Curvularia	1	13	spores/m^3	8%
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**13**	**173**	**spores/m^3**	

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Sample Number:	14	**Volume (L):**	75
Sample Location:	Hall at CR 215	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low-moderate
Date Analyzed:	5/8/24	**Notes:**	_

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

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
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Project Type: IEQ
PO/Claim #: _

Sample Number:	15	**Volume (L):**	75
Sample Location:	CR 211	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low
Date Analyzed:	5/8/24	**Notes:**	_

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

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Sample Number: 16
Sample Location: CR 212
Date Collected: 5/4/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/8/24

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

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	21%
Ascospores		-	spores/m^3	-
Basidiospores	5	67	spores/m^3	36%
Smuts, *Periconia* , Myxomycetes	2	27	spores/m^3	14%
Penicillium/Aspergillus Group	4	53	spores/m^3	29%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**14**	**187**	**spores/m^3**	

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

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Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Sample Number:	17	**Volume (L):**	75
Sample Location:	Media Center	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low-moderate
Date Analyzed:	5/8/24	**Notes:**	_

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

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

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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
_

Project #: **24-2421**
Project Location: Cape Hatteras Elementary
_
Project Type: IEQ
PO/Claim #: _

Sample Number:	18	**Volume (L):**	75
Sample Location:	Outdoor Air	**Percentage of Slide Read:**	100.0%
Date Collected:	5/4/24	**Detection Limit:**	13.33
Test Requested:	Non-viable spore trap analysis	**Particulate Level:**	low-moderate
Date Analyzed:	5/8/24	**Notes:**	_

Spore Identification	Count	Results	Units	Percentage
Cladosporium	31	413	spores/m^3	19%
Ascospores	94	1253	spores/m^3	58%
Basidiospores	6	80	spores/m^3	4%
Smuts, *Periconia* , Myxomycetes	16	213	spores/m^3	10%
Penicillium/Aspergillus Group	6	80	spores/m^3	4%
Hyphal Elements	5	67	spores/m^3	3%
Alternaria		-	spores/m^3	-
Curvularia	2	27	spores/m^3	1%
Epicoccum		-	spores/m^3	-
Cercospora	1	13	spores/m^3	1%
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust	1	13	spores/m^3	1%
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**162**	**2160**	**spores/m^3**	

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

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Certificate of Laboratory Analysis

Project #: 24-2421

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

Cathy A. Richmond, BS
5/8/2024

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