



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 SA. Wrightsville Avenue  
 Nags Head, NC

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School

**Project Type:** IAQ  
**PO/Claim #:** -

**Table 1: Non-Viable Air Samples**

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	1	2	3	4	5
Spore Identification	Main Hall at Entrance	Hall B110/109	Hall B 103	CR B105	CR B 111
<i>Cladosporium</i>	40	40	27	107	67
Ascospores	-	-	13	40	-
Basidiospores <sup>2</sup>	40	-	27	27	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	27	27	13	107	-
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	13	-	27	27	67
Hyphal Elements <sup>3</sup>	27	40	-	133	13
<i>Alternaria</i>	27	13	-	-	-
<i>Curvularia</i>	-	13	13	53	-
<i>Epicoccum</i>	-	13	-	-	-
<i>Cercospora</i>	-	-	13	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust <sup>5</sup>	-	-	-	13	-
<i>Drechslera/Bipolaris</i>	40	13	-	27	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>213</b>	<b>160</b>	<b>133</b>	<b>533</b>	<b>173</b>
<b>Particulate Level</b>	<b>moderate</b>	<b>moderate</b>	<b>low-moderate</b>	<b>heavy</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



**Certificate of Laboratory Analysis**  
**Non-Viable Spore Trap Analysis**

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

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School

**Project Type:** IAQ  
**PO/Claim #:** -

**Table 1: Non-Viable Air Samples**

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	6	7	8	9	10
Spore Identification	Hall B 116	Hall B 119	B 123 Cafeteria	B 116	Hall B 127
<i>Cladosporium</i>	40	53	27	53	27
Ascospores	13	13	-	27	-
Basidiospores <sup>2</sup>	40	40	13	13	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	13	27	-	67	13
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	27	13	53	27	67
Hyphal Elements <sup>3</sup>	40	80	13	27	13
<i>Alternaria</i>	13	-	-	-	-
<i>Curvularia</i>	13	-	-	-	13
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	13	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	40	40	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>253</b>	<b>267</b>	<b>107</b>	<b>213</b>	<b>160</b>
<b>Particulate Level</b>	<b>moderate-heavy</b>	<b>moderate-heavy</b>	<b>low-moderate</b>	<b>low-moderate</b>	<b>low-moderate</b>
<b>Date Analyzed:</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



**Certificate of Laboratory Analysis**  
**Non-Viable Spore Trap Analysis**

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

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School

**Project Type:** IAQ  
**PO/Claim #:**

**Table 1: Non-Viable Air Samples**

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	11	12	13	14	15
Spore Identification	Hall B209	Hall B206	CR 205	Hall 29	CR B 220
<i>Cladosporium</i>	27	67	13	27	13
Ascospores	27	-	13	-	13
Basidiospores <sup>2</sup>	13	-	-	-	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	13	-	-	-	-
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	-	-	27	-	-
Hyphal Elements <sup>3</sup>	40	40	13	27	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>120</b>	<b>107</b>	<b>67</b>	<b>53</b>	<b>27</b>
<b>Particulate Level</b>	<b>low-moderate</b>	<b>low-moderate</b>	<b>low</b>	<b>low-moderate</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



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 SA. Wrightsville Avenue  
 Nags Head, NC

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School

**Project Type:** IAQ  
**PO/Claim #:**

**Table 1: Non-Viable Air Samples**

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	16	17	18	19	20
Spore Identification	Hall at D15	D 128	D 131	Media	Gym
<i>Cladosporium</i>	53	-	27	53	67
Ascospores	40	27	-	13	-
Basidiospores <sup>2</sup>	-	-	27	13	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	13	-	13	27	-
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	-	-	27	13	80
Hyphal Elements <sup>3</sup>	80	-	13	13	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	13	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	13	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	13	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>200</b>	<b>27</b>	<b>120</b>	<b>147</b>	<b>173</b>
<b>Particulate Level</b>	<b>moderate</b>	<b>low</b>	<b>low</b>	<b>low-moderate</b>	<b>low-moderate</b>
<b>Date Analyzed:</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



**Certificate of Laboratory Analysis**  
**Non-Viable Spore Trap Analysis**

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

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School

**Project Type:** IAQ  
**PO/Claim #:**

**Table 1: Non-Viable Air Samples**

Date Collected:	5/2/24
Spore Identification	21
	Outdoor Air
<i>Cladosporium</i>	6987
Ascospores	2187
Basidiospores <sup>2</sup>	373
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	267
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	267
Hyphal Elements <sup>3</sup>	107
<i>Alternaria</i>	-
<i>Curvularia</i>	53
<i>Epicoccum</i>	-
<i>Cercospora</i>	107
<i>Arthrinium</i>	-
Clear Brown	-
Colorless	-
Trichocladium	-
Unidentified	-
<i>Ulocladium</i>	-
Torula	-
Pithomyces	-
Rust <sup>5</sup>	-
<i>Drechslera/Bipolaris</i>	-
<i>Tetraploa</i>	-
<i>Chaetomium</i>	-
<i>Stachybotrys</i>	-
	-
Total Spores/m <sup>3</sup>	10347
Particulate Level	low-moderate
Date Analyzed:	5/6/24

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.





## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
**Project Type:** -  
 IAQ  
**PO/Claim #:** -

**Sample Number:** 2  
**Sample Location:** Hall B110/109  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

**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 <sup>3</sup>	25%
Ascospores		-	spores/m <sup>3</sup>	-
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	17%
<i>Penicillium/Aspergillus</i> Group		-	spores/m <sup>3</sup>	-
Hyphal Elements	3	40	spores/m <sup>3</sup>	25%
<i>Alternaria</i>	1	13	spores/m <sup>3</sup>	8%
<i>Curvularia</i>	1	13	spores/m <sup>3</sup>	8%
<i>Epicoccum</i>	1	13	spores/m <sup>3</sup>	8%
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>	1	13	spores/m <sup>3</sup>	8%
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>12</b>	<b>160</b>	<b>spores/m<sup>3</sup></b>	

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for the activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as a general reference information from published sources and is not an extension of liability to LRC. LRC assumes liability limited to the cost of analysis.





## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 4  
**Sample Location:** CR B105  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24  
**Volume (L):** 75  
**Percentage of Slide Read:** 100.0%  
**Detection Limit:** 13.33  
**Particulate Level:** heavy  
**Notes:** Code 11

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	8	107	spores/m <sup>3</sup>	20%
Ascospores	3	40	spores/m <sup>3</sup>	8%
Basidiospores	2	27	spores/m <sup>3</sup>	5%
Smuts, <i>Periconia</i> , Myxomycetes	8	107	spores/m <sup>3</sup>	20%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m <sup>3</sup>	5%
Hyphal Elements	10	133	spores/m <sup>3</sup>	25%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>	4	53	spores/m <sup>3</sup>	10%
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust	1	13	spores/m <sup>3</sup>	3%
<i>Drechslera/Bipolaris</i>	2	27	spores/m <sup>3</sup>	5%
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>40</b>	<b>533</b>	<b>spores/m<sup>3</sup></b>	

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
  
**Project Type:** -  
 IAQ  
**PO/Claim #:** -

**Sample Number:** 5  
**Sample Location:** CR B 111  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

**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 <sup>3</sup>	38%
Ascospores		-	spores/m <sup>3</sup>	-
Basidiospores	2	27	spores/m <sup>3</sup>	15%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m <sup>3</sup>	-
<i>Penicillium/Aspergillus</i> Group	5	67	spores/m <sup>3</sup>	38%
Hyphal Elements	1	13	spores/m <sup>3</sup>	8%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>		-	spores/m <sup>3</sup>	-
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>		-	spores/m <sup>3</sup>	-
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>13</b>	<b>173</b>	<b>spores/m<sup>3</sup></b>	

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



## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

**Dare County Schools**  
**Ian Adams**  
**3020 SA. Wrightsville Avenue**  
**Nags Head, NC**  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
 -  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 6  
**Sample Location:** Hall B 116  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m <sup>3</sup>	16%
Ascospores	1	13	spores/m <sup>3</sup>	5%
Basidiospores	3	40	spores/m <sup>3</sup>	16%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m <sup>3</sup>	5%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m <sup>3</sup>	11%
Hyphal Elements	3	40	spores/m <sup>3</sup>	16%
<i>Alternaria</i>	1	13	spores/m <sup>3</sup>	5%
<i>Curvularia</i>	1	13	spores/m <sup>3</sup>	5%
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified	1	13	spores/m <sup>3</sup>	5%
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>	3	40	spores/m <sup>3</sup>	16%
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>19</b>	<b>253</b>	<b>spores/m<sup>3</sup></b>	

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



## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 7  
**Sample Location:** Hall B 119  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m <sup>3</sup>	20%
Ascospores	1	13	spores/m <sup>3</sup>	5%
Basidiospores	3	40	spores/m <sup>3</sup>	15%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	10%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m <sup>3</sup>	5%
Hyphal Elements	6	80	spores/m <sup>3</sup>	30%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>		-	spores/m <sup>3</sup>	-
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>	3	40	spores/m <sup>3</sup>	15%
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>20</b>	<b>267</b>	<b>spores/m<sup>3</sup></b>	

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



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 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 8  
**Sample Location:** B 123 Cafeteria  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

**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 <sup>3</sup>	25%
Ascospores		-	spores/m <sup>3</sup>	-
Basidiospores	1	13	spores/m <sup>3</sup>	13%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m <sup>3</sup>	-
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m <sup>3</sup>	50%
Hyphal Elements	1	13	spores/m <sup>3</sup>	13%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>		-	spores/m <sup>3</sup>	-
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>		-	spores/m <sup>3</sup>	-
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>8</b>	<b>107</b>	<b>spores/m<sup>3</sup></b>	

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 9  
**Sample Location:** B 116  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

**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 <sup>3</sup>	25%
Ascospores	2	27	spores/m <sup>3</sup>	13%
Basidiospores	1	13	spores/m <sup>3</sup>	6%
Smuts, <i>Periconia</i> , Myxomycetes	5	67	spores/m <sup>3</sup>	31%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m <sup>3</sup>	13%
Hyphal Elements	2	27	spores/m <sup>3</sup>	13%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>		-	spores/m <sup>3</sup>	-
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>		-	spores/m <sup>3</sup>	-
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>16</b>	<b>213</b>	<b>spores/m<sup>3</sup></b>	

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



## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 10      **Volume (L):** 75  
**Sample Location:** Hall B 127      **Percentage of Slide Read:** 100.0%  
**Date Collected:** 5/2/24      **Detection Limit:** 13.33  
**Test Requested:** Non-viable spore trap analysis      **Particulate Level:** low-moderate  
**Date Analyzed:** 5/6/24      **Notes:**

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

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



## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

**Dare County Schools**  
**Ian Adams**  
**3020 SA. Wrightsville Avenue**  
**Nags Head, NC**  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
  
**Project Type:** - IAQ  
**PO/Claim #:** -

<b>Sample Number:</b>	11	<b>Volume (L):</b>	75
<b>Sample Location:</b>	Hall B209	<b>Percentage of Slide Read:</b>	100.0%
<b>Date Collected:</b>	5/2/24	<b>Detection Limit:</b>	13.33
<b>Test Requested:</b>	Non-viable spore trap analysis	<b>Particulate Level:</b>	low-moderate
<b>Date Analyzed:</b>	5/6/24	<b>Notes:</b>	-

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m <sup>3</sup>	22%
Ascospores	2	27	spores/m <sup>3</sup>	22%
Basidiospores	1	13	spores/m <sup>3</sup>	11%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m <sup>3</sup>	11%
<i>Penicillium/Aspergillus</i> Group		-	spores/m <sup>3</sup>	-
Hyphal Elements	3	40	spores/m <sup>3</sup>	33%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>		-	spores/m <sup>3</sup>	-
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>		-	spores/m <sup>3</sup>	-
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>9</b>	<b>120</b>	<b>spores/m<sup>3</sup></b>	

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







## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 14      **Volume (L):** 75  
**Sample Location:** Hall 29      **Percentage of Slide Read:** 100.0%  
**Date Collected:** 5/2/24      **Detection Limit:** 13.33  
**Test Requested:** Non-viable spore trap analysis      **Particulate Level:** low-moderate  
**Date Analyzed:** 5/6/24      **Notes:**

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

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





## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 16      **Volume (L):** 75  
**Sample Location:** Hall at D15      **Percentage of Slide Read:** 100.0%  
**Date Collected:** 5/2/24      **Detection Limit:** 13.33  
**Test Requested:** Non-viable spore trap analysis      **Particulate Level:** moderate  
**Date Analyzed:** 5/6/24      **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m <sup>3</sup>	27%
Ascospores	3	40	spores/m <sup>3</sup>	20%
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m <sup>3</sup>	7%
<i>Penicillium/Aspergillus</i> Group		-	spores/m <sup>3</sup>	-
Hyphal Elements	6	80	spores/m <sup>3</sup>	40%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>		-	spores/m <sup>3</sup>	-
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified		-	spores/m <sup>3</sup>	-
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>	1	13	spores/m <sup>3</sup>	7%
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>15</b>	<b>200</b>	<b>spores/m<sup>3</sup></b>	

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

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.







## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
 Ian Adams  
 3020 SA. Wrightsville Avenue  
 Nags Head, NC  
 -

**Project #:** 24-2413  
**Project Location:** Manteo Elementary School  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 19      **Volume (L):** 75  
**Sample Location:** Media      **Percentage of Slide Read:** 100.0%  
**Date Collected:** 5/2/24      **Detection Limit:** 13.33  
**Test Requested:** Non-viable spore trap analysis      **Particulate Level:** low-moderate  
**Date Analyzed:** 5/6/24      **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m <sup>3</sup>	36%
Ascospores	1	13	spores/m <sup>3</sup>	9%
Basidiospores	1	13	spores/m <sup>3</sup>	9%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	18%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m <sup>3</sup>	9%
Hyphal Elements	1	13	spores/m <sup>3</sup>	9%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>		-	spores/m <sup>3</sup>	-
<i>Epicoccum</i>		-	spores/m <sup>3</sup>	-
<i>Cercospora</i>		-	spores/m <sup>3</sup>	-
<i>Arthrinium</i>		-	spores/m <sup>3</sup>	-
Clear Brown		-	spores/m <sup>3</sup>	-
Colorless		-	spores/m <sup>3</sup>	-
<i>Trichocladium</i>		-	spores/m <sup>3</sup>	-
Unidentified	1	13	spores/m <sup>3</sup>	9%
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>		-	spores/m <sup>3</sup>	-
Rust		-	spores/m <sup>3</sup>	-
<i>Drechslera/Bipolaris</i>		-	spores/m <sup>3</sup>	-
<i>Tetraploa</i>		-	spores/m <sup>3</sup>	-
<i>Chaetomium</i>		-	spores/m <sup>3</sup>	-
<i>Stachybotrys</i>		-	spores/m <sup>3</sup>	-
		-	spores/m <sup>3</sup>	-
<b>Total Spores</b>	<b>11</b>	<b>147</b>	<b>spores/m<sup>3</sup></b>	

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



