



### Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis  
 Project #: 25-1416

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

Project Location: First Flight Elementary School  
 107 Veterans Drive  
 Kill Devil Hills, NC

Project Type: IAQ

PO/Claim #: -

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

Date Collected:	4/21/25	4/21/25	4/21/25	4/21/25	4/21/25
	1	2	3	4	5
Spore Identification	Cafeteria	Gym	D121	D111	Media
<i>Cladosporium</i>	27	27	13	-	13
Ascospores	40	13	27	40	27
Basidiospores <sup>2</sup>	-	-	13	13	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	27	-	-	-	-
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	-	-	27	40	13
Hyphal Elements <sup>3</sup>	40	13	13	-	13
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrimum</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
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>133</b>	<b>53</b>	<b>93</b>	<b>93</b>	<b>67</b>
<b>Particulate Level</b>	<b>low</b>	<b>low</b>	<b>low</b>	<b>low</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>

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

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Project Location: First Flight Elementary School  
 107 Veterans Drive  
 Kill Devil Hills, NC

Project Type: IAQ

PO/Claim #: -

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

Date Collected:	4/21/25	4/21/25	4/21/25	4/21/25	4/21/25
Spore Identification	6	7	8	9	10
	B149	Hall at B 155	Hall @ C 125	C 118	A 102
<i>Cladosporium</i>	13	40	13	-	-
Ascospores	-	80	27	27	13
Basidiospores <sup>2</sup>	-	-	27	-	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	13	13	27	13	-
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	27	13	133	13	13
Hyphal Elements <sup>3</sup>	13	13	13	13	13
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	13	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust <sup>5</sup>	-	-	13	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>67</b>	<b>173</b>	<b>253</b>	<b>67</b>	<b>40</b>
<b>Particulate Level</b>	<b>low</b>	<b>low-moderate</b>	<b>low-moderate</b>	<b>low</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>

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**Project Location:** First Flight Elementary School  
 107 Veterans Drive  
 Kill Devil Hills, NC

**Project Type:** IAQ

**PO/Claim #:** -

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

Date Collected:	4/21/25	4/21/25	4/21/25	4/21/25
	11	12	13	14
Spore Identification	A 120	B 111	Outdoor Air	Office
<i>Cladosporium</i>	27	27	267	80
Ascospores	-	-	1280	40
Basidiospores <sup>2</sup>	27	13	133	40
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	13	-	40	27
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	27	-	867	13
Hyphal Elements <sup>3</sup>	-	-	27	67
<i>Alternaria</i>	-	-	-	13
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	-	13	13
<i>Cercospora</i>	-	-	-	-
<i>Arthrimum</i>	-	-	-	-
Clear Brown	-	-	-	-
Colorless	-	-	-	-
<i>Trichocladium</i>	-	-	-	-
Unidentified	-	-	-	13
<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>93</b>	<b>40</b>	<b>2627</b>	<b>307</b>
<b>Particulate Level</b>	<b>low-moderate</b>	<b>low</b>	<b>moderate-heavy</b>	<b>moderate</b>
<b>Date Analyzed:</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>	<b>4/23/25</b>

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**Project #:** 25-1416  
**Project Location:** First Flight Elementary School  
 107 Veterans Drive  
 Kill Devil Hills, NC  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 1  
**Sample Location:** Cafeteria  
**Date Collected:** 4/21/25  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 4/23/25

**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 <sup>3</sup>	20%
Ascospores	3	40	spores/m <sup>3</sup>	30%
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	20%
<i>Penicillium/Aspergillus</i> Group		-	spores/m <sup>3</sup>	-
Hyphal Elements	3	40	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>		-	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>10</b>	<b>133</b>	<b>spores/m<sup>3</sup></b>	

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**LRC Indoor Testing and Research**  
 200 Commonwealth Ct, Suite 101  
 Cary, NC 27511  
 (919) 342-4936

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

**Project #:** 25-1416  
**Project Location:** First Flight Elementary School  
 107 Veterans Drive  
 Kill Devil Hills, NC  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 3  
**Sample Location:** D121  
**Date Collected:** 4/21/25  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 4/23/25

**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 <sup>3</sup>	14%
Ascospores	2	27	spores/m <sup>3</sup>	29%
Basidiospores	1	13	spores/m <sup>3</sup>	14%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m <sup>3</sup>	-
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m <sup>3</sup>	29%
Hyphal Elements	1	13	spores/m <sup>3</sup>	14%
<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>Arthrimum</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>7</b>	<b>93</b>	<b>spores/m<sup>3</sup></b>	

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**Project Location:** First Flight Elementary School  
 107 Veterans Drive  
 Kill Devil Hills, NC  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 4  
**Sample Location:** D111  
**Date Collected:** 4/21/25  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 4/23/25  
**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>		-	spores/m <sup>3</sup>	-
Ascospores	3	40	spores/m <sup>3</sup>	43%
Basidiospores	1	13	spores/m <sup>3</sup>	14%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m <sup>3</sup>	-
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m <sup>3</sup>	43%
Hyphal Elements		-	spores/m <sup>3</sup>	-
<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>7</b>	<b>93</b>	<b>spores/m<sup>3</sup></b>	

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

**Sample Number:** 5  
**Sample Location:** Media  
**Date Collected:** 4/21/25  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 4/23/25  
**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 <sup>3</sup>	20%
Ascospores	2	27	spores/m <sup>3</sup>	40%
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m <sup>3</sup>	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m <sup>3</sup>	20%
Hyphal Elements	1	13	spores/m <sup>3</sup>	20%
<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>5</b>	<b>67</b>	<b>spores/m<sup>3</sup></b>	

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 -

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

**Sample Number:** 7  
**Sample Location:** Hall at B 155  
**Date Collected:** 4/21/25  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 4/23/25  
**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 <sup>3</sup>	23%
Ascospores	6	80	spores/m <sup>3</sup>	46%
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m <sup>3</sup>	8%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m <sup>3</sup>	8%
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	1	13	spores/m <sup>3</sup>	8%
<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>	

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**Project #:** 25-1416  
**Project Location:** First Flight Elementary School  
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**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 8  
**Sample Location:** Hall @ C 125  
**Date Collected:** 4/21/25  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 4/23/25

**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>	1	13	spores/m <sup>3</sup>	5%
Ascospores	2	27	spores/m <sup>3</sup>	11%
Basidiospores	2	27	spores/m <sup>3</sup>	11%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	11%
<i>Penicillium/Aspergillus</i> Group	10	133	spores/m <sup>3</sup>	53%
Hyphal Elements	1	13	spores/m <sup>3</sup>	5%
<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	1	13	spores/m <sup>3</sup>	5%
<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>19</b>	<b>253</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

Project #: 25-1416

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 Acromonium, 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.

Direct Microscopic Exam Reporting:

We use a 400x-600x magnification microscope.

Reporting Quantification Levels are as follows:

Table with 2 columns: Reporting Level, Quantitative Description. Rows include Occasional (1-10 per square inch), Few (11-100 per square inch), Moderate (101-1000 per square inch), and Numerous (More than 1,000 per square inch).

Submitted By Analyst:

Cathy A. Richmond (handwritten signature)

Cathy A. Richmond, BS

4/23/2025