Reliant Environmental

October 21, 2026

Mr. Danny Bustle
Assistant Maintenance Director
Iredell-Statesville Schools
Facilities & Planning
350 Old Murdock Road
Troutman, North Carolina 28166

RE: Indoor Air Quality Testing – Iredell-Statesville Schools – Coddle Creek Elementary
141 Franks Crossing Loop – Mooresville, North Carolina 28114

Mr. Bustle:

Attached, please find the final report for the indoor air quality testing conducted at the above referenced site. All testing was conducted on ***October 15, 2026***.

If you should have any questions or require additional information, please call me at 828-421-6900.

Sincerely,

Terry L. LaDuke

Terry L. LaDuke
Member/Manager

INDOOR AIR QUALITY TESTING
FINAL REPORT

Iredell-Statesville Schols
Coddle Creek Elementary School
141 Franks Crossing Loop
Mooresville, North Carolina

Prepared For:

Mr. Danny Bustle
Assistant Maintenance Director
Iredell-Statesville Schools
Facilities & Planning
350 Old Murdock Road
Troutman, North Carolina 28166

Prepared By:

Reliant Environmental
92 Elaine Drive
Canton, North Carolina 28716

Terry L. LaDuke
Terry L. LaDuke

October 21, 2026

INDOOR AIR QUALITY TESTING
FINAL REPORT

Iredell-Statesville Schols
Coddle Creek Elementary School
141 Franks Crossing Loop
Mooresville, North Carolina

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INDOOR AIR QUALITY TESTING ROUND 2

Iredell-Statesville Schols
Coddle Creek Elementary School
141 Franks Crossing Loop
Mooresville, North Carolina

I. INTRODUCTION:

Reliant Environmental was contracted by Iredell-Statesville Schools to conduct indoor air quality testing of the Coddle Creek Elementary School located at 141 Franks Crossing Loop in Mooresville, North Carolina. Work included ambient air sample collection and analysis for fungi in fifty-one (51) interior locations and one (1) exterior location for comparison purposes.

Site Visit:

On ***October 15, 2026,*** Reliant Environmental representatives, Terry L. LaDuke and Shane A. Moody conducted the indoor air quality testing at locations which were chosen by Iredell-Statesville Schools.

Iredell-Statesville Schools reports that each classroom has its own HVAC system with an exterior compressor and Air Handling Unit (AHU) in the ceiling mezzanine with related supply air and return air ducts and diffusers located in the suspended ceiling tile grid.

Additionally, it has been reported that the school utilizes an Energy Recovery Ventilator (ERV) system which exchanges indoor air with fresh outdoor air while transferring heat and moisture between air streams to reduce energy consumption. There is one ERV system which reportedly services the entire school building. The ERV system is ducted into the Return Air Duct system of each individual Air Handling Unit (AHU). During the on-site inspection the ERV system was not functioning in the B Wing Classrooms of the school. This is evident as the Carbon Dioxide levels are generally higher in B Wing Classrooms compared to other areas tested (i.e. less or no fresh outside air being introduced into the HVAC system).

ERVs reportedly have common issues with transferring moisture along with heat and they can struggle to keep humidity levels within acceptable levels during rainy and/or summer humidity conditions.

This ERV system reportedly has air filtration at two separate locations, and the filters were recently replaced according to ISS staff member Mr. Danny Bustle. It is widely accepted that filters be changed from every 3 to 6 months and the core cleaned to insure adequate air flow and performance.

II. SAMPLING METHODOLOGY:

Air Samples – Fungi Analysis Direct Exam: Spore Trap sampling is designed for the rapid collection and analysis of a wide range of airborne particles. A vacuum pump is utilized for sample collection, which is calibrated before and after each day of sampling. Air sampling for individual cassettes is 15.0 liters per minute for 5 minutes for a total volume of 75 liters of air. See laboratory results in ***Table 1 of Section III***.

CO, CO_2, Temperature, and RH: Carbon monoxide, carbon dioxide, temperature, and relative humidity (rh) were measured using the AQM4 Indoor Air Quality Meter which has the capability to log readings over a specified period of time and graph the individual measurements. See measurements in ***Table 2 of Section III***.

Particle Counts: Reliant Environmental measured particle counts using the Airy Technology Handheld Laser Particle Counter Model P311. The particle counter measures three (3) particle sizes simultaneously including 0.3µ, 0.5µ and 5.0µ particles. Particle counts were measured using the total (cumulative) count mode for one minute at a flow rate of 2.83 liters per minute. Three readings were measured at each sample location. The average of the three particle count readings is displayed in ***Table 3 of Section III, Particle Count Results.***

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677613	D132	78.4 – Alternaria 1,020 – Ascospores 392 – Basidiospores 313 – Cladosporium 235 – Curvularia 1,960 – Myxomycete/Rust/Smut-like 78.4 – Pithomyces
		4,080 – Total Fungi 627 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677743	D131	705 – Ascospores 235 – Basidiospores 157 – Cladosporium 392 – Curvularia 78.4 – Drechslera/Bipolaris 78.4 - Epicoccum 1,650 – Myxomycete/Rust/Smut-like 235 – Pithomyces
		3,530 – Total Fungi 313 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
724715	D130	78.4 – Alternaria 862 – Ascospores 470 – Basidiospores 313 – Cladosporium 235 – Curvularia 3,530 – Myxomycete/Rust/Smut-like 157 – Pithomyces 78.4 - Spegazzinia
		5,720 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677559	D127	470 – Ascospores 313 – Basidiospores 313 – Cladosporium 470 – Curvularia 78.4 - Epicoccum 2,270 – Myxomycete/Rust/Smut-like
		3,920 – Total Fungi 470 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677715	D126	78.4 – Alternaria 940 – Ascospores 157 – Aspergillus/Penicillium-like 627 – Basidiospores 392 – Cladosporium 313 – Curvularia 78.4 – Drechslera/Bipolaris 2,040 – Myxomycete/Rust/Smut-like 78.4 – Pithomyces
		4,700 – Total Fungi 862 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677554	D125	313 – Ascospores 313 – Basidiospores 627 – Cladosporium 313 – Curvularia 78.4 – Drechslera/Bipolaris 862 – Myxomycete/Rust/Smut-like
		2,510 – Total Fungi 313 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
724627	D109	470 – Ascospores 235 – Basidiospores 313 – Cladosporium 235 – Curvularia 2,430 – Myxomycete/Rust/Smut-like
		3,680 – Total Fungi 235 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677738	D110	235 – Ascospores 78.4 – Basidiospores 78.4 – Cladosporium 157 – Curvularia 940 – Myxomycete/Rust/Smut-like
		1,490 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
724516	D121	78.4 – Alternaria 1,250 – Ascospores 862 – Basidiospores 627 – Cladosporium 549 – Curvularia 235 – Drechslera/Bipolaris 78.4 - Epicoccum 3,680 – Myxomycete/Rust/Smut-like 157 - Nigrospora 392 – Pithomyces
		7,920 – Total Fungi 705 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677581	D122	235 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 78.4 – Curvularia 705 – Myxomycete/Rust/Smut-like 78.4 – Pithomyces
		1,330 – Total Fungi 235 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
724546	D123	1,250 – Ascospores 3,210 – Aspergillus/Penicillium-like 549 – Basidiospores 940 – Cladosporium 549 – Curvularia 78.4 – Drechslera/Bipolaris 2,270 – Myxomycete/Rust/Smut-like 235 – Pithomyces
		9,090 – Total Fungi 862 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
724596	D124	78.4 – Alternaria 1,180 – Ascospores 2,510 – Aspergillus/Penicillium-like 705 – Basidiospores 862 – Cladosporium 1,720 – Curvularia 78.4 – Drechslera/Bipolaris 157 - Epicoccum 2,980 – Myxomycete/Rust/Smut-like 157 – Pithomyces
		10,400 – Total Fungi 940 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677723	C152	470 – Ascospores 392 – Basidiospores 549 – Cladosporium 78.4 – Curvularia 1,570 – Myxomycete/Rust/Smut-like
		3,060 – Total Fungi 392 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677744	C151	313 – Ascospores 157 – Basidiospores 157 – Cladosporium 1,650 – Myxomycete/Rust/Smut-like
		2,270 – Total Fungi 313 – Hyphal Fragments 78.4 - Pollen 20 – 40 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677701	C150	549 – Ascospores 313 – Basidiospores 235 – Cladosporium 157 – Curvularia 78.4 – Epicoccum 2,120 – Myxomycete/Rust/Smut-like 78.4 – Pithomyces
		3,530 – Total Fungi 235 – Hyphal Fragments 78.4 - Pollen 20 – 40 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677664	C149	78.4 – Alternaria 1,100 – Ascospores 705 – Basidiospores 549 – Cladosporium 862 – Curvularia 313 – Drechslera/Bipolaris 392 – Epicoccum 9,250 – Myxomycete/Rust/Smut-like 157 – Pithomyces
		13,400 – Total Fungi 705 – Hyphal Fragments 157 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677626	C148	78.4 – Alternaria 1,410 – Ascospores 549 – Basidiospores 862 – Cladosporium 1,800 – Curvularia 78.4 – Epicoccum > 23,500 – Myxomycete/Rust/Smut-like 313 - Nigrospora 1,490 – Pithomyces
		> 30,100 – Total Fungi 2,510 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677601	C145	78.4 – Alternaria 940 – Ascospores 470 – Basidiospores 549 – Cladosporium 1,720 – Curvularia 235 – Epicoccum > 23,500 – Myxomycete/Rust/Smut-like 157 - Nigrospora 392 – Pithomyces
		> 28,100 – Total Fungi 1,330 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677731	C144	157 – Alternaria 1,330 – Ascospores 862 – Basidiospores 1,490 – Cladosporium 1,330 – Curvularia 235 – Drechslera/Bipolaris 235 – Epicoccum > 23,500 – Myxomycete/Rust/Smut-like 78.4 - Nigrospora 313 – Pithomyces
		> 29,500 – Total Fungi 1,100 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677732	C143	705 – Ascospores 1,650 – Aspergillus/Penicillium-like 470 – Basidiospores 784 – Cladosporium 392 – Curvularia 78.4 – Drechslera/Bipolaris 13,900 – Myxomycete/Rust/Smut-like 392 – Pithomyces
		18,300 – Total Fungi 1,410 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677748	C142	78.4 – Alternaria 1,020 – Ascospores 470 – Basidiospores 549 – Cladosporium 705 – Curvularia 78.4 – Drechslera/Bipolaris > 23,500 – Myxomycete/Rust/Smut-like
		> 26,400 – Total Fungi 705 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
724549	C122	1,650 – Ascospores 862 – Basidiospores 705 – Cladosporium 235 – Curvularia 78.4 – Drechslera/Bipolaris 13,900 – Myxomycete/Rust/Smut-like 78.4 - Torula
		17,500 – Total Fungi 862 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677659	C123	78.4 – Alternaria 705 – Ascospores 470 – Basidiospores 627 – Cladosporium 235 – Curvularia 78.4 – Epicoccum 7,920 – Myxomycete/Rust/Smut-like
		10,100 – Total Fungi 549 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677556	C127	78.4 – Alternaria 940 – Ascospores 627 – Basidiospores 705 – Cladosporium 470 – Curvularia 157 – Drechslera/Bipolaris 78.4 – Epicoccum 8,700 – Myxomycete/Rust/Smut-like
		11,800 – Total Fungi 627 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
724655	C128	78.4 – Alternaria 1,330 – Ascospores 862 – Basidiospores 862 – Cladosporium 627 – Curvularia 78.4 – Drechslera/Bipolaris 157 – Epicoccum 11,400 – Myxomycete/Rust/Smut-like
		15,400 – Total Fungi 627 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677724	C129	705 – Ascospores 313 – Basidiospores 313 – Cladosporium 78.4 – Curvularia 78.4 – Epicoccum 1,650 – Myxomycete/Rust/Smut-like
		3,130 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

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III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677624	C138	470 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 157 – Curvularia 862 – Myxomycete/Rust/Smut-like
		1,720 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
484382	C139	78.4 – Alternaria 549 – Ascospores 235 – Basidiospores 235 – Cladosporium 313 – Curvularia 78.4 – Drechslera/Bipolaris 157 – Epicoccum 8,310 – Myxomycete/Rust/Smut-like 78.4 - Nigrospora 78.4 – Pithomyces
		10,100 – Total Fungi 157 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

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III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677725	C141	862 – Ascospores 470 – Basidiospores 313 – Cladosporium 235 – Curvularia 78.4 – Drechsler/Bipolaris 157 – Epicoccum 10,300 – Myxomycete/Rust/Smut-like 157 – Pithomyces
		12,500 – Total Fungi 313 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677658	B139	627 – Ascospores 235 – Basidiospores 157 – Cladosporium 157 – Curvularia 3,450 – Myxomycete/Rust/Smut-like
		4,620 – Total Fungi 157 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677675	B138	705 – Ascospores 313 – Basidiospores 235 – Cladosporium 313 – Curvularia 78.4 - Epicoccum 3,210 – Myxomycete/Rust/Smut-like
		4,860 – Total Fungi 392 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

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Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677621	B136	235 – Ascospores 78.4 – Basidiospores 78.4 – Cladosporium 313 – Myxomycete/Rust/Smut-like
		705 – Total Fungi 78.4 – Hyphal Fragments 60 – 80 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677746	B133	313 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 78.4 – Drechslera/Bipolaris 784 – Myxomycete/Rust/Smut-like
		1,410 – Total Fungi 235 – Hyphal Fragments 60 – 80 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677666	B132	157 – Ascospores 78.4 – Basidiospores 78.4 – Cladosporium 235 – Myxomycete/Rust/Smut-like
		549 – Total Fungi 20 – 40 % - Skin Cell Debris 20 – 40 % - Total Debris

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III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677603	B129	157 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 78.4 - Curvularia 470 – Myxomycete/Rust/Smut-like
		940 – Total Fungi 78.4 – Hyphal Fragments 20 – 40 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677661	B126	313 – Ascospores 235 – Basidiospores 78.4 – Cladosporium 78.4 - Curvularia 470 – Myxomycete/Rust/Smut-like
		1,180 – Total Fungi 40 – 60 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677671	B103	157 – Ascospores 78.4 – Basidiospores 392 – Myxomycete/Rust/Smut-like
		627 – Total Fungi 20 – 40 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
724679	B107	235 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 78.4 – Curvularia 78.4 - Epicoccum 235 – Myxomycete/Rust/Smut-like
		862 – Total Fungi 40 – 60 % - Skin Cell Debris 20 – 40 % - Total Debris

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III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
724597	B108	862 – Ascospores 549 – Basidiospores 235 – Cladosporium 235 – Curvularia 8,700 – Myxomycete/Rust/Smut-like 78.4 – Nigrospora 235 - Pithomyces
		10,900 – Total Fungi 235 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
724545	B120	78.4 – Ascospores 78.4 – Basidiospores 78.4 - Pithomyces
		235 – Total Fungi 78.4 – Hyphal Fragments 20 – 40 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677721	B121	78.4 – Ascospores 78.4 – Basidiospores 78.4 – Cladosporium 78.4 – Curvularia 78.4 – Drechslera/Bipolaris 78.4 – Myxomycete/Rust/Smut-like 78.4 - Pithomyces
		549 – Total Fungi 78.4 – Hyphal Fragments 20 – 40 % - Skin Cell Debris 0 – 20 % - Total Debris

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Air Samples – Fungi Analysis:

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Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
724548	B124	235 – Ascospores 78.4 – Basidiospores
		313 – Total Fungi 78.4 – Hyphal Fragments 20 – 40 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677737	B125	157 – Ascospores 78.4 – Basidiospores 78.4 – Cladosporium 78.4 – Curvularia 78.4 – Drechslera/Bipolaris 157 – Myxomycete/Rust/Smut-like 78.4 - Pithomyces
		705 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 20 – 40 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
728413	B104	157 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 78.4 – Epicoccum 313 – Myxomycete/Rust/Smut-like
		784 – Total Fungi 78.4 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
724543	B102	313 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 157 - Curvularia 549 – Myxomycete/Rust/Smut-like
		1,250 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677681	C105	470 – Alternaria 2,270 – Ascospores 940 – Aspergillus/Penicillium-like 1,570 – Basidiospores 1,410 – Cladosporium 3,600 – Curvularia 392 – Drechsler/Bipolaris > 23,500 – Myxomycete/Rust/Smut-like 78.4 - Nigrospora 3,290 – Pithomyces
		> 37,500 – Total Fungi 3,210 – Hyphal Fragments 157 - Pollen 40 – 60 % - Skin Cell Debris 80 – 100 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
677680	D104	705 – Ascospores 470 – Basidiospores 157 – Cladosporium 313 – Curvularia 1,650 – Myxomycete/Rust/Smut-like
		3,290 – Total Fungi 235 – Hyphal Fragments 78.4 - Pollen 40 – 60 % - Skin Cell Debris 60 – 80 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
724515	D106	235 – Ascospores 78.4 – Basidiospores 78.4 – Cladosporium 78.4 – Curvularia 705 – Myxomycete/Rust/Smut-like 78.4 - Pithomyces
		1,250 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677676	D103	78.4 – Ascospores 78.4 – Basidiospores 392 – Cladosporium
		549 – Total Fungi 40 – 60 % - Skin Cell Debris 20 – 40 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
728368	Administration Corridor	470 – Ascospores 157 – Basidiospores 78.4 – Cladosporium 78.4 – Curvularia 78.4 – Drechsler/Bipolaris 78.4 - Epicoccum 1,650 – Myxomycete/Rust/Smut-like 157 – Pithomyces
		2,740 – Total Fungi 78.4 – Hyphal Fragments 40 – 60 % - Skin Cell Debris 40 – 60 % - Total Debris

Sample Number	Location	Counts Per Cubic Meter
677565	Gym	313 – Alternaria 1,410 – Ascospores 2,430 – Aspergillus/Penicillium-like 862 – Basidiospores 1,490 – Cladosporium 3,600 – Curvularia 157 – Drechsler/Bipolaris 157 – Epicoccum > 23,500 – Myxomycete/Rust/Smut-like 1,180 – Pithomyces
		> 35,100 – Total Fungi 1,880 – Hyphal Fragments 78.4 - Pollen 20 – 40 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS:

Air Samples – Fungi Analysis:

Laboratory analyses were performed on air samples by Scientific Analytical Institute, using SAI Method B-SOP-003, Direct Exam: Spore Trap Analysis of Air Sample. Areas sampled and corresponding results are shown on the ***Site Drawing*** in ***Appendix C*** and listed below:

Table 1
Fungi Laboratory Results of Air Samples

Sample Number	Location	Counts Per Cubic Meter
484444	Exterior	313 – Alternaria 13,900 – Ascospores 862 – Aspergillus/Penicillium-like 7,990 – Basidiospores 157 – Cercospora-like 3,600 – Cladosporium 862 – Curvularia 157 – Drechslera/Bipolaris 1,020 – Epicoccum 705 – Fusarium-like 1,570 – Myxomycete/Rust/Smut-like 313 - Nigrospora 78.4 – Pithomyces 78.4 – Polythrincium 78.4 – Pyricularia 78.4 - Torula 862 – Unknown/Other
		32,600 – Total Fungi 862 – Hyphal Fragments 313 - Pollen 0 – 20 % - Skin Cell Debris 60 – 80 % - Total Debris

See laboratory data sheets attached in Appendix A.

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS continued:

CO, CO_2, Temperature, and RH:

Carbon monoxide, carbon dioxide, temperature, and relative humidity (RH) were measured using the AQM4 Indoor Air Quality Meter which as the capability to log readings over a specified period of time and graph the individual measurements. See recorded measurements in ***Table 2*** below:

TABLE 2
CO, CO_2, Temperature, and RH

Location	Temperature	% Relative Humidity	Carbon Monoxide ppm	Carbon Dioxide ppm
D132	69.6	55.8	0	1,401
D131	70.6	55.0	0	1,479
D130	72.9	51.4	0	1,486
D127	72.0	52.7	0	1,521
D126	71.4	51.3	0	1,263
D125	73.3	52.1	0	1,534
D109	69.4	54.7	0	1,420
D110	69.4	54.7	0	1,480
D121	72.0	52.9	0	1,567
D122	71.4	51.1	0	1,697
D123	72.3	51.7	0	1,406
D124	72.8	53.3	0	1,712
C152	70.8	44.4	0	1,019
C151	70.9	47.8	0	1,301
C150	72.8	41.0	0	1,201
C149	71.1	46.8	0	1,554
C148	71.3	47.1	0	1,901
C145	72.0	46.4	0	1,514
C144	71.6	45.6	0	1,624
C143	72.1	44.5	0	1,484
C142	72.2	48.1	0	1,570
C122	71.5	43.1	0	1,140
C123	71.2	44.2	0	1,248
C127	71.3	46.8	0	1,645
C128	71.8	47.7	0	1,806
C129	72.1	46.1	0	1,582
C138	72.1	46.2	0	1,475
C139	72.2	43.9	0	1,528
C141	70.9	47.1	0	1,504
B139	70.8	65.5	0	1,748
B138	71.9	64.9	0	2,123

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS continued:

CO, CO_2, Temperature, and RH:

Carbon monoxide, carbon dioxide, temperature, and relative humidity (RH) were measured using the AQM4 Indoor Air Quality Meter which as the capability to log readings over a specified period of time and graph the individual measurements. See recorded measurements in ***Table 2*** below:

TABLE 2
CO, CO_2, Temperature, and RH

Location	Temperature	% Relative Humidity	Carbon Monoxide ppm	Carbon Dioxide ppm
B136	69.8	67.9	0	1,814
B133	70.6	65.0	0	2,127
B132	69.8	65.1	0	2,029
B129	69.3	69.8	0	1,849
B126	70.4	62.5	0	1,827
B103	70.8	63.3	0	1,738
B107	71.0	58.9	0	1,598
B108	70.5	64.9	0	2,075
B120	70.0	68.4	0	1,975
B121	69.7	68.7	0	1,904
B124	71.7	66.8	0	1,890
B125	69.5	61.3	0	1,900
B104	71.5	66.9	0	1,829
B102	72.4	56.9	0	1,731
C105	71.8	54.9	0	1,427
D104	72.1	53.5	0	904
D106	72.7	55.1	0	1,095
D103	70.8	54.5	0	934
Adm Corridor	71.8	59.1	0	925
Gym	73.1	61.6	0	979
Exterior	80.4	62.5	0	596

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS continued:
Particle Counts:

The particle counter measures three (3) particle sizes simultaneously including 0.3µ, 0.5µ and 5.0µ particles. Particle counts were measured using the total (cumulative) count mode for one minute at a flow rate of 2.83 liters per minute. Three readings were measured at each sample location. See recorded readings in ***Table 3*** below:

TABLE 3
Particle Counts

Location	0.3 *u*	0.5 *u*	5.0 *u*
D132	46,621	3,209	0
D131	45,229	1,574	0
D130	23,643	1,103	0
D127	80,005	9,076	0
D126	46,984	1,778	0
D125	38,991	1,328	0
D109	44,497	1,481	0
D110	39,172	1,376	0
D121	38,358	1,260	0
D122	29,363	1,056	0
D123	47,803	1,805	0
D124	45,084	1,597	0
C152	50,021	1,804	0
C151	42,878	1,519	0
C150	47,551	1,665	0
C149	67,230	6,820	0
C148	33,680	1,543	0
C145	41,624	1,464	0
C144	40,515	1,854	0
C143	42,964	1,566	0
C142	35,169	1,171	0
C122	46,981	1,442	0
C123	44,548	1,423	0
C127	41,845	1,383	0
C128	45,822	1,533	0
C129	39,715	1,291	0
C138	42,809	1,375	0
C139	44,630	1,566	0
C141	35,797	1,219	0
B139	16,521	462	0
B138	9,644	398	0

III. SAMPLE LABORATORY ANALYSIS AND IAQ MEASUREMENTS continued:
Particle Counts:

The particle counter measures three (3) particle sizes simultaneously including 0.3µ, 0.5µ and 5.0µ particles. Particle counts were measured using the total (cumulative) count mode for one minute at a flow rate of 2.83 liters per minute. Three readings were measured at each sample location. See recorded readings in ***Table 3*** below:

TABLE 3
Particle Counts

Location	0.3 *u*	0.5 *u*	5.0 *u*
B136	14,718	466	0
B133	13,849	447	0
B132	13,923	396	0
B129	16,521	462	0
B126	15,801	471	0
B103	18,552	574	0
B107	14,314	440	0
B108	13,146	531	0
B120	14,131	376	0
B121	14,601	401	0
B124	14,099	380	0
B125	17,104	511	0
B104	16,665	477	0
B102	17,073	488	0
C105	40,089	1,433	0
D104	46,173	1,325	0
D106	42,383	1,309	0
D103	46,965	1,474	0
Adm Corridor	45,322	1,379	0
Gym	52,766	2,027	0
Exterior	126,866	9,854	7

IV. CONCLUSIONS:

The following conclusions are based on the results of laboratory analyses of air and surface samples, general indoor air quality measurements, and inspections:

The total interior air fungal counts in the areas tested in this study range from 235 – > 30,100 counts/m^3 compared to a count of 32,600 counts/m^3 outdoors. It is generally accepted that a functioning HVAC system with proper filtrations will have counts approximately 1/3 total counts/m^3 of the exterior levels.

All fifteen (15) of classrooms of D Wing sampled are below the recommended 1/3 total counts/m^3 of the exterior levels.

Eleven (11) of the eighteen (18) classrooms of C Wing exceed the recommended 1/3 total counts/m^3 of the exterior levels.

One (1) of the sixteen (16) classrooms of B Wing exceed the recommended 1/3 total counts/m^3 of the exterior levels.

The Gym also exceed the recommended 1/3 total counts/m^3 of the exterior levels.

The following fungal species were identified indoors at a higher level than the exterior level:

D Wing Classrooms:

Room D132		
Myxomycete/Rust/Smut-like	1,960 counts/m^3	Exterior – 1,570 counts/m^3
Room D131		
Myxomycete/Rust/Smut-like	1,650 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	235 counts/m^3	Exterior – 78.4 counts/m^3
Room D130		
Myxomycete/Rust/Smut-like	3,530 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	157 counts/m^3	Exterior – 78.4 counts/m^3
Spegazzinia	78.4 counts/m^3	Exterior – 0 counts/m^3
Room D127		
Myxomycete/Rust/Smut-like	2,270 counts/m^3	Exterior – 1,570 counts/m^3
Room D126		
Myxomycete/Rust/Smut-like	2,040 counts/m^3	Exterior – 1,570 counts/m^3
Room D109		
Myxomycete/Rust/Smut-like	2,430 counts/m^3	Exterior – 1,570 counts/m^3

The following fungal species were identified indoors at a higher level than the exterior level:

D Wing Classrooms continued:

Room D121		
Myxomycete/Rust/Smut-like	3,680 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	392 counts/m^3	Exterior – 78.4 counts/m^3
Room D123		
Aspergillus/Penicillium-like	3,210 counts/m^3	Exterior – 862 counts/m^3
Myxomycete/Rust/Smut-like	2,270 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	235 counts/m^3	Exterior – 78.4 counts/m^3
Room D124		
Aspergillus/Penicillium-like	2,510 counts/m^3	Exterior – 862 counts/m^3
Curvularia	1,720 counts/m^3	Exterior – 862 counts/m^3
Myxomycete/Rust/Smut-like	2,980 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	157 counts/m^3	Exterior – 78.4 counts/m^3
Room D104		
Myxomycete/Rust/Smut-like	1,650 counts/m^3	Exterior – 1,570 counts/m^3

C Wing Classrooms

Room C151		
Myxomycete/Rust/Smut-like	1,650 counts/m^3	Exterior – 1,570 counts/m^3
Room C150		
Myxomycete/Rust/Smut-like	2,120 counts/m^3	Exterior – 1,570 counts/m^3
Room C149		
Drechslera/Bipolaris	313 counts/m^3	Exterior – 157 counts/m^3
Myxomycete/Rust/Smut-like	9,250 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	157 counts/m^3	Exterior – 78.4 counts/m^3
Room C148		
Curvularia	1,800 counts/m^3	Exterior – 862 counts/m^3
Myxomycete/Rust/Smut-like	> 23,500 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	1,490 counts/m^3	Exterior – 78.4 counts/m^3
Room C145		
Curvularia	1,720 counts/m^3	Exterior – 862 counts/m^3
Myxomycete/Rust/Smut-like	> 23,500 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	392 counts/m^3	Exterior – 78.4 counts/m^3
Room C144		
Curvularia	1,330 counts/m^3	Exterior – 862 counts/m^3
Drechslera/Bipolaris	235 counts/m^3	Exterior – 157 counts/m^3
Myxomycete/Rust/Smut-like	> 23,500 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	313 counts/m^3	Exterior – 78.4 counts/m^3

The following fungal species were identified indoors at a higher level than the exterior level:

C Wing Classrooms continued:

Room C143		
Aspergillus/Penicillium-like	1,650 counts/m^3	Exterior – 862 counts/m^3
Myxomycete/Rust/Smut-like	13,900 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	392 counts/m^3	Exterior – 78.4 counts/m^3
Room C142		
Myxomycete/Rust/Smut-like	> 23,500 counts/m^3	Exterior – 1,570 counts/m^3
Room C122		
Myxomycete/Rust/Smut-like	13,900 counts/m^3	Exterior – 1,570 counts/m^3
Room C123		
Myxomycete/Rust/Smut-like	7,920 counts/m^3	Exterior – 1,570 counts/m^3
Room C127		
Myxomycete/Rust/Smut-like	8,700 counts/m^3	Exterior – 1,570 counts/m^3
Room C128		
Myxomycete/Rust/Smut-like	11,400 counts/m^3	Exterior – 1,570 counts/m^3
Room C129		
Myxomycete/Rust/Smut-like	1,650 counts/m^3	Exterior – 1,570 counts/m^3
Room C139		
Myxomycete/Rust/Smut-like	8,310 counts/m^3	Exterior – 1,570 counts/m^3
Room C141		
Myxomycete/Rust/Smut-like	10,300 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	157 counts/m^3	Exterior – 78.4 counts/m^3
Room C105		
Aspergillus/Penicillium-like	940 counts/m^3	Exterior – 862 counts/m^3
Curvularia	3,600 counts/m^3	Exterior – 862 counts/m^3
Drechslera/Bipolaris	392 counts/m^3	Exterior – 157 counts/m^3
Myxomycete/Rust/Smut-like	> 23,500 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	3,290 counts/m^3	Exterior – 78.4 counts/m^3

The following fungal species were identified indoors at a higher level than the exterior level:

B Wing Classrooms

Room B139		
Myxomycete/Rust/Smut-like	3,450 counts/m^3	Exterior – 1,570 counts/m^3
Room B138		
Myxomycete/Rust/Smut-like	3,210 counts/m^3	Exterior – 1,570 counts/m^3
Room B108		
Myxomycete/Rust/Smut-like	8,700 counts/m^3	Exterior – 1,570 counts/m^3

Other Areas Tested

Administration Corridor		
Myxomycete/Rust/Smut-like	1,650 counts/m^3	Exterior – 1,570 counts/m^3
Gym		
Aspergillus/Penicillium-like	2,430 counts/m^3	Exterior – 862 counts/m^3
Curvularia	3,600 counts/m^3	Exterior – 862 counts/m^3
Myxomycete/Rust/Smut-like	> 23,500 counts/m^3	Exterior – 1,570 counts/m^3
Pithomyces	1,180 counts/m^3	Exterior – 78.4 counts/m^3

Based on the American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), a "comfort zone" is defined as an area where comfort is maintained for 80% of the users of a space. Figure 1 of ***Appendix B*** depicts the ASHRAE graph illustrating temperature and relative humidity and the area of the "comfort zone". The interior areas tested in this study are currently within the ASHRAE comfort zone. Some areas are not in compliance with ASHRAE Standard 62-2001 recommended limits of 30 - 60% for indoor air as shown in ***Table 2*** of ***Section III***.

Indoor carbon dioxide levels in the majority of the interior areas tested in this study are greater than the ASHRAE recommended level of 1,000 ppm for indoor air. Other literature indicates adequate ventilation in an indoor environment at $\leq$ 600 ppm. The interior sampling data indicated levels ranging from 925 – 2,127 ppm as shown in ***Table 2*** of ***Section III***.

The carbon monoxide levels measured in all indoor areas tested in this study are well below the OSHA Time Weighted Average (TWA) of 25 ppm. All interior levels are 0 ppm as shown in ***Table 2*** of ***Section III***.

Indoor ambient particle counts ranged from 9,644 – 80,005 at 0.3 micron, 376 – 9,076 at 0.5 micron and 0 at 5.0 micron for the interior areas tested in this study. Outdoor particle counts are 126,866 at 0.3 micron, 9,854 at 0.5 micron and 7 at 5.0 micron. Indoor particle counts are lower than outdoor counts at the 0.3, 0.5 and 5.0 micron levels as shown in ***Table 3*** of ***Section III***.

V. RECOMMENDATIONS & DISCUSSION:

The following recommendations and discussion are based on the results of air sample laboratory results, general indoor air quality measurements, and visual inspections:

D Wing classrooms, C Wing classrooms and the Gym appear to have the more significant amplification of fungi spores in the various areas tested.

B Wing only has three (3) of sixteen (16) areas tested which have amplification of specific spores that are higher than outdoor levels for that specific species. Additionally, only one (1) of the sixteen (16) classrooms of B Wing exceed the recommended 1/3 total counts/m^3 of the exterior fungi levels.

As reported, the ERV system is not functioning in the B Wing of the building, but functioning in the C & D Wings. Being that B wing is the area with the least fungi amplification, issues may be in the ERV system.

ERVs reportedly have common issues with transferring moisture along with heat, they can struggle to keep humidity levels within an acceptable range during rainy and/or summer humidity conditions. High humidity levels > 60% relative humidity even for a short period of time can promote rapid fungi growth. As humidity levels return to a normal range, the fungi growth may have already occurred and growth can then continue with lower humidity levels.

An HVAC technician with specific experience in the ERV system should review all ductwork as well as all filters and the current settings to ensure proper operations and humidity levels which are not conducive to fungi growth.

The entire ERV system as well as individual HVAC – Air Handling Units (AHU) in rooms where the fungal species were identified at a higher level than the exterior level should be inspected for microbial growth. (10 classrooms in D Wing, 16 classrooms in C Wing, 3 classrooms in B Wing, Administration Corridor and Gym).

It is recommended that ambient humidity levels be monitored in various classrooms within all areas to ensure a balanced system. Indoor humidity levels that exceed 60% relative humidity can promote microbial growth on indoor surfaces.

APPENDIX A

AIR SAMPLE
LABORATORY ANALYSIS

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677613			677743			724715			EXTERIOR		
Lab Sample ID	10120463_0001			10120463_0002			10120463_0003			AVERAGE		
Description	D132			D131			D13...			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria	1	78.4	1.92%				1	78.4	1.37%	4	313	0.962%
Ascospores	13	1020	25.0%	9	705	20.0%	11	862	15.1%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	5	392	9.62%	3	235	6.67%	6	470.	8.22%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	4	313	7.69%	2	157	4.44%	4	313	5.48%	46	3600	11.1%
Curvularia	3	235	5.77%	5	392	11.1%	3	235	4.11%	11	862	2.64%
Drechslera/Bipolaris				1	78.4	2.22%				2	157	0.481%
Epicoccum				1	78.4	2.22%				13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	25	1960	48.1%	21	1650	46.7%	45	3530	61.6%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces	1	78.4	1.92%	3	235	6.67%	2	157	2.74%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia							1	78.4	1.37%			
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**52**	**4080**	**100.%**	**45**	**3530**	**100.%**	**73**	**5720**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	8	627	-	4	313	-	1	78.4	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	1	78.4	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**60-80%**			**60-80%**			**60-80%**			**N/A**	

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Darrin Parrick (52)
Analyst

Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Reliant Environmental

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677559			677715			677554			EXTERIOR		
Lab Sample ID	10120463_0004			10120463_0005			10120463_0006			AVERAGE		
Description	D127			D126			D125			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria				1	78.4	1.67%				4	313	0.962%
Ascospores	6	470	12.0%	12	940	20.0%	4	313	12.5%	177	13900	42.5%
Aspergillus/Penicillium-like				2	157	3.33%				11	862	2.64%
Basidiospores	4	313	8.00%	8	627	13.3%	4	313	12.5%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	4	313	8.00%	5	392	8.33%	8	627	25.0%	46	3600	11.1%
Curvularia	6	470	12.0%	4	313	6.67%	4	313	12.5%	11	862	2.64%
Drechslera/Bipolaris				1	78.4	1.67%	1	78.4	3.13%	2	157	0.481%
Epicoccum	1	78.4	2.00%							13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	29	2270	58.0%	26	2040	43.3%	11	862	34.4%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces				1	78.4	1.67%				1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**50**	**3920**	**100.%**	**60**	**4700**	**100.%**	**32**	**2510**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	6	470	-	11	862	-	4	313	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	78.4	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**60-80%**			**60-80%**			**60-80%**			**N/A**	

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Analyst

Approved Signatory

Reliant Environmental

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	724627			677738			724516			EXTERIOR		
Lab Sample ID	10120463_0007			10120463_0008			10120463_0009			AVERAGE		
Description	D109			D110			D121			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria							1	78.4	0.990%	4	313	0.962%
Ascospores	6	470	12.8%	3	235	15.8%	16	1250	15.8%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	3	235	6.38%	1	78.4	5.26%	11	862	10.9%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	4	313	8.51%	1	78.4	5.26%	8	627	7.92%	46	3600	11.1%
Curvularia	3	235	6.38%	2	157	10.5%	7	549	6.93%	11	862	2.64%
Drechslera/Bipolaris							3	235	2.97%	2	157	0.481%
Epicoccum							1	78.4	0.990%	13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	31	2430	66.0%	12	940	63.2%	47	3680	46.5%	20	1570	4.81%
Nigrospora							2	157	1.98%	4	313	0.962%
Pithomyces							5	392	4.95%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**47**	**3680**	**100.%**	**19**	**1490**	**100.%**	**101**	**7920**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	3	235	-	1	78.4	-	9	705	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**60-80%**			**40-60%**			**60-80%**			**N/A**	

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Analyst

Approved Signatory

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677581			724546			724596			EXTERIOR		
Lab Sample ID	10120463_0010			10120463_0011			10120463_0012			AVERAGE		
Description	D122			D123			D124			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total
Alternaria							1	78.4	0.752%	4	313	0.962%
Ascospores	3	235	17.6%	16	1250	13.8%	15	1180	11.3%	177	13900	42.5%
Aspergillus/Penicillium-like				41	3210	35.3%	32	2510	24.1%	11	862	2.64%
Basidiospores	2	157	11.8%	7	549	6.03%	9	705	6.77%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	1	78.4	5.88%	12	940.	10.3%	11	862	8.27%	46	3600	11.1%
Curvularia	1	78.4	5.88%	7	549	6.03%	22	1720	16.5%	11	862	2.64%
Drechslera/Bipolaris				1	78.4	0.862%	1	78.4	0.752%	2	157	0.481%
Epicoccum							2	157	1.5%	13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	9	705	52.9%	29	2270	25.0%	38	2980	28.6%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces	1	78.4	5.88%	3	235	2.59%	2	157	1.5%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	17	1330	100.%	116	9090	100.%	133	10400	100.%	416	32600	100.%
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	3	235	-	11	862	-	12	940.	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		40-60%			40-60%			40-60%			N/A	
Total Debris in Background		40-60%			60-80%			60-80%			N/A	

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Analyst

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Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Reliant Environmental

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677723			677744			677701			EXTERIOR		
Lab Sample ID	10120463_0013			10120463_0014			10120463_0015			AVERAGE		
Description	C152			C151			C150			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria										4	313	0.962%
Ascospores	6	470	15.4%	4	313	13.8%	7	549	15.6%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	5	392	12.8%	2	157	6.9%	4	313	8.89%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	7	549	17.9%	2	157	6.9%	3	235	6.67%	46	3600	11.1%
Curvularia	1	78.4	2.56%				2	157	4.44%	11	862	2.64%
Drechslera/Bipolaris										2	157	0.481%
Epicoccum							1	78.4	2.22%	13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	20	1570	51.3%	21	1650	72.4%	27	2120	60.0%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces							1	78.4	2.22%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**39**	**3060**	**100.%**	**29**	**2270**	**100.%**	**45**	**3530**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	5	392	-	4	313	-	3	235	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	1	78.4	-	1	78.4	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**20-40%**			**20-40%**			**N/A**	
Total Debris in Background		**40-60%**			**60-80%**			**60-80%**			**N/A**	

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Analyst

Approved Signatory

Reliant Environmental

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677664			677626			677601			EXTERIOR		
Lab Sample ID	10120463_0016			10120463_0017			10120463_0018			AVERAGE		
Description	C149			C148			C145			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria	1	78.4	0.585%	1	78.4	0.260%	1	78.4	0.279%	4	313	0.962%
Ascospores	14	1100	8.19%	18	1410	4.69%	12	940.	3.35%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	9	705	5.26%	7	549	1.82%	6	470.	1.68%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	7	549	4.09%	11	862	2.86%	7	549	1.96%	46	3600	11.1%
Curvularia	11	862	6.43%	23	1800	5.99%	22	1720	6.15%	11	862	2.64%
Drechslera/Bipolaris	4	313	2.34%							2	157	0.481%
Epicoccum	5	392	2.92%	1	78.4	0.260%	3	235	0.838%	13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	118	9250	69.0%	>300	>23500	78.1%**	>300	>23500	83.8%**	20	1570	4.81%
Nigrospora				4	313	1.04%	2	157	0.559%	4	313	0.962%
Pithomyces	2	157	1.17%	19	1490	4.95%	5	392	1.4%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**171**	**13400**	**100.%**	**>384**	**>30100**	**100.%**	**>358**	**>28100**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	9	705	-	32	2510	-	17	1330	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	2	157	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**60-80%**			**60-80%**			**60-80%**			**N/A**	

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Analyst

Approved Signatory

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677731			677732			677748			EXTERIOR		
Lab Sample ID	10120463_0019			10120463_0020			10120463_0021			AVERAGE		
Description	C144			C143			C142			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total
Alternaria	2	157	0.531%				1	78.4	0.297%	4	313	0.962%
Ascospores	17	1330	4.51%	9	705	3.85%	13	1020	3.86%	177	13900	42.5%
Aspergillus/Penicillium-like				21	1650	8.97%				11	862	2.64%
Basidiospores	11	862	2.92%	6	470	2.56%	6	470	1.78%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	19	1490	5.04%	10	784	4.27%	7	549	2.08%	46	3600	11.1%
Curvularia	17	1330	4.51%	5	392	2.14%	9	705	2.67%	11	862	2.64%
Drechslera/Bipolaris	3	235	0.796%	1	78.4	0.427%	1	78.4	0.297%	2	157	0.481%
Epicoccum	3	235	0.796%							13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	>300	>23500	79.6%**	177	13900	75.6%	>300	>23500	89.0%**	20	1570	4.81%
Nigrospora	1	78.4	0.265%							4	313	0.962%
Pithomyces	4	313	1.06%	5	392	2.14%				1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	>377	>29500	100.%	234	18300	100.%	>337	>26400	100.%	416	32600	100.%
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	14	1100	-	18	1410	-	9	705	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	1	78.4	-	-	-	-	4	313	-
Skin Cell % of Total Debris		40-60%			40-60%			40-60%			N/A	
Total Debris in Background		60-80%			60-80%			60-80%			N/A	

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Analyst

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Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	724549			677659			677556			EXTERIOR		
Lab Sample ID	10120463_0022			10120463_0023			10120463_0024			AVERAGE		
Description	C122			C123			C127			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria				1	78.4	0.775%	1	78.4	0.667%	4	313	0.962%
Ascospores	21	1650	9.42%	9	705	6.98%	12	940	8.00%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	11	862	4.93%	6	470	4.65%	8	627	5.33%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	9	705	4.04%	8	627	6.2%	9	705	6.00%	46	3600	11.1%
Curvularia	3	235	1.35%	3	235	2.33%	6	470	4.00%	11	862	2.64%
Drechslera/Bipolaris	1	78.4	0.448%				2	157	1.33%	2	157	0.481%
Epicoccum				1	78.4	0.775%	1	78.4	0.667%	13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	177	13900	79.4%	101	7920	78.3%	111	8700	74.0%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces										1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula	1	78.4	0.448%							1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**223**	**17500**	**100.%**	**129**	**10100**	**100.%**	**150**	**11800**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	11	862	-	7	549	-	8	627	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**60-80%**			**60-80%**			**60-80%**			**N/A**	

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Darrin Parrick (52)
Analyst

Approved Signatory

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	724655			677724			677624			EXTERIOR		
Lab Sample ID	10120463_0025			10120463_0026			10120463_0027			AVERAGE		
Description	C128			C129			C138			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total
Alternaria	1	78.4	0.508%							4	313	0.962%
Ascospores	17	1330	8.63%	9	705	22.5%	6	470	27.3%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	11	862	5.58%	4	313	10.0%	2	157	9.09%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	11	862	5.58%	4	313	10.0%	1	78.4	4.55%	46	3600	11.1%
Curvularia	8	627	4.06%	1	78.4	2.5%	2	157	9.09%	11	862	2.64%
Drechslera/Bipolaris	1	78.4	0.508%							2	157	0.481%
Epicoccum	2	157	1.02%	1	78.4	2.5%				13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	146	11400	74.1%	21	1650	52.5%	11	862	50.0%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces										1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	197	15400	100.%	40	3130	100.%	22	1720	100.%	416	32600	100.%
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	8	627	-	1	78.4	-	1	78.4	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		40-60%			40-60%			40-60%			N/A	
Total Debris in Background		60-80%			40-60%			40-60%			N/A	

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Analyst

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Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	484382			677725			677658			EXTERIOR		
Lab Sample ID	10120463_0028			10120463_0029			10120463_0030			AVERAGE		
Description	C139			C141			B135			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total
Alternaria	1	78.4	0.775%							4	313	0.962%
Ascospores	7	549	5.43%	11	862	6.88%	8	627	13.6%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	3	235	2.33%	6	470	3.75%	3	235	5.08%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	3	235	2.33%	4	313	2.5%	2	157	3.39%	46	3600	11.1%
Curvularia	4	313	3.1%	3	235	1.88%	2	157	3.39%	11	862	2.64%
Drechslera/Bipolaris	1	78.4	0.775%	1	78.4	0.625%				2	157	0.481%
Epicoccum	2	157	1.55%	2	157	1.25%				13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	106	8310	82.2%	131	10300	81.9%	44	3450	74.6%	20	1570	4.81%
Nigrospora	1	78.4	0.775%							4	313	0.962%
Pithomyces	1	78.4	0.775%	2	157	1.25%				1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	129	10100	100.%	160	12500	100.%	59	4620	100.%	416	32600	100.%
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	2	157	-	4	313	-	2	157	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	1	78.4	-	1	78.4	-	4	313	-
Skin Cell % of Total Debris		40-60%			40-60%			40-60%			N/A	
Total Debris in Background		40-60%			60-80%			40-60%			N/A	

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Reliant Environmental

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SAI Method B-SOP-003

Customer: Reliant Environmental
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Canton, NC 28716

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Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677675			677621			677746			EXTERIOR		
Lab Sample ID	10120463_0031			10120463_0032			10120463_0033			AVERAGE		
Description	B138			B136			B133			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria										4	313	0.962%
Ascospores	9	705	14.5%	3	235	33.3%	4	313	22.2%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	4	313	6.45%	1	78.4	11.1%	2	157	11.1%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	3	235	4.84%	1	78.4	11.1%	1	78.4	5.56%	46	3600	11.1%
Curvularia	4	313	6.45%							11	862	2.64%
Drechslera/Bipolaris							1	78.4	5.56%	2	157	0.481%
Epicoccum	1	78.4	1.61%							13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	41	3210	66.1%	4	313	44.4%	10	784	55.6%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces										1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**62**	**4860**	**100.%**	**9**	**705**	**100.%**	**18**	**1410**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	5	392	-	1	78.4	-	3	235	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	1	78.4	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**60-80%**			**60-80%**			**N/A**	
Total Debris in Background		**60-80%**			**20-40%**			**20-40%**			**N/A**	

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Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677666			677603			677661			EXTERIOR		
Lab Sample ID	10120463_0034			10120463_0035			10120463_0036			AVERAGE		
Description	B132			B129			B126			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria										4	313	0.962%
Ascospores	2	157	28.6%	2	157	16.7%	4	313	26.7%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	1	78.4	14.3%	2	157	16.7%	3	235	20.0%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	1	78.4	14.3%	1	78.4	8.33%	1	78.4	6.67%	46	3600	11.1%
Curvularia				1	78.4	8.33%	1	78.4	6.67%	11	862	2.64%
Drechslera/Bipolaris										2	157	0.481%
Epicoccum										13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	3	235	42.9%	6	470	50.0%	6	470	40.0%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces										1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	7	549	100.%	12	940.	100.%	15	1180	100.%	416	32600	100.%
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	-	-	-	1	78.4	-	-	-	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**20-40%**			**20-40%**			**40-60%**			**N/A**	
Total Debris in Background		**20-40%**			**20-40%**			**20-40%**			**N/A**	

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ISS – Coddle Creek Elementary
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Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677671			724679			724597			EXTERIOR		
Lab Sample ID	10120463_0037			10120463_0038			10120463_0039			AVERAGE		
Description	B103			B107			B108			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria										4	313	0.962%
Ascospores	2	157	25.0%	3	235	27.3%	11	862	7.91%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	1	78.4	12.5%	2	157	18.2%	7	549	5.04%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium				1	78.4	9.09%	3	235	2.16%	46	3600	11.1%
Curvularia				1	78.4	9.09%	3	235	2.16%	11	862	2.64%
Drechslera/Bipolaris										2	157	0.481%
Epicoccum				1	78.4	9.09%				13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	5	392	62.5%	3	235	27.3%	111	8700	79.9%	20	1570	4.81%
Nigrospora							1	78.4	0.719%	4	313	0.962%
Pithomyces							3	235	2.16%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**8**	**627**	**100.%**	**11**	**862**	**100.%**	**139**	**10900**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	-	-	-	-	-	-	3	235	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	1	78.4	-	4	313	-
Skin Cell % of Total Debris		**20-40%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**20-40%**			**20-40%**			**60-80%**			**N/A**	

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Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
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Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	724545			677721			724548			EXTERIOR		
Lab Sample ID	10120463_0040			10120463_0041			10120463_0042			AVERAGE		
Description	B120			B121			B124			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria										4	313	0.962%
Ascospores	1	78.4	33.3%	1	78.4	14.3%	3	235	75.0%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	1	78.4	33.3%	1	78.4	14.3%	1	78.4	25.0%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium				1	78.4	14.3%				46	3600	11.1%
Curvularia				1	78.4	14.3%				11	862	2.64%
Drechslera/Bipolaris				1	78.4	14.3%				2	157	0.481%
Epicoccum										13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like				1	78.4	14.3%				20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces	1	78.4	33.3%	1	78.4	14.3%				1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**3**	**235**	**100.%**	**7**	**549**	**100.%**	**4**	**313**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	1	78.4	-	1	78.4	-	1	78.4	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**20-40%**			**20-40%**			**20-40%**			**N/A**	
Total Debris in Background		**20-40%**			**0-20%**			**20-40%**			**N/A**	

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Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677737			728413			724543			EXTERIOR		
Lab Sample ID	10120463_0043			10120463_0044			10120463_0045			AVERAGE		
Description	B125			B104			B102			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria										4	313	0.962%
Ascospores	2	157	22.2%	2	157	20.0%	4	313	25.0%	177	13900	42.5%
Aspergillus/Penicillium-like										11	862	2.64%
Basidiospores	1	78.4	11.1%	2	157	20.0%	2	157	12.5%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	1	78.4	11.1%	1	78.4	10.0%	1	78.4	6.25%	46	3600	11.1%
Curvularia	1	78.4	11.1%				2	157	12.5%	11	862	2.64%
Drechslera/Bipolaris	1	78.4	11.1%							2	157	0.481%
Epicoccum				1	78.4	10.0%				13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	2	157	22.2%	4	313	40.0%	7	549	43.8%	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces	1	78.4	11.1%							1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**9**	**705**	**100.%**	**10**	**784**	**100.%**	**16**	**1250**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	1	78.4	-	1	78.4	-	1	78.4	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	78.4	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**20-40%**			**40-60%**			**40-60%**			**N/A**	

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**High spore concentrations denote an approximate percentage of total amount.

Darrin Parrick (52)
Analyst

Approved Signatory

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Reliant Environmental

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SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: **10120463**
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677681			677680			724515			EXTERIOR		
Lab Sample ID	10120463_0046			10120463_0047			10120463_0048			AVERAGE		
Description	C105			D104			D106			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria	6	470	1.25%							4	313	0.962%
Ascospores	29	2270	6.05%	9	705	21.4%	3	235	18.8%	177	13900	42.5%
Aspergillus/Penicillium-like	12	940	2.51%							11	862	2.64%
Basidiospores	20	1570	4.18%	6	470	14.3%	1	78.4	6.25%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	18	1410	3.76%	2	157	4.76%	1	78.4	6.25%	46	3600	11.1%
Curvularia	46	3600	9.6%	4	313	9.52%	1	78.4	6.25%	11	862	2.64%
Drechslera/Bipolaris	5	392	1.04%							2	157	0.481%
Epicoccum										13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like	>300	>23500	62.6%**	21	1650	50.0%	9	705	56.3%	20	1570	4.81%
Nigrospora	1	78.4	0.209%							4	313	0.962%
Pithomyces	42	3290	8.77%				1	78.4	6.25%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	**>479**	**>37500**	**100.%**	**42**	**3290**	**100.%**	**16**	**1250**	**100.%**	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	41	3210	-	3	235	-	1	78.4	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	2	157	-	1	78.4	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**40-60%**			**40-60%**			**40-60%**			**N/A**	
Total Debris in Background		**80-100%**			**60-80%**			**40-60%**			**N/A**	

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Darrin Parrick (52)
Analyst

Approved Signatory

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	677676			728368			677565			EXTERIOR		
Lab Sample ID	10120463_0049			10120463_0050			10120463_0051			AVERAGE		
Description	D103			Adm Corridor			Gym			N/A		
Lab Notes										N/A		
Volume (L)	75			75			75			N/A		
Analytical Sensitivity (counts/m³)	78			78			78			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total
Alternaria							4	313	0.893%	4	313	0.962%
Ascospores	1	78.4	14.3%	6	470	17.1%	18	1410	4.02%	177	13900	42.5%
Aspergillus/Penicillium-like							31	2430	6.92%	11	862	2.64%
Basidiospores	1	78.4	14.3%	2	157	5.71%	11	862	2.46%	102	7990	24.5%
Cercospora-like										2	157	0.481%
Cladosporium	5	392	71.4%	1	78.4	2.86%	19	1490	4.24%	46	3600	11.1%
Curvularia				1	78.4	2.86%	46	3600	10.3%	11	862	2.64%
Drechslera/Bipolaris				1	78.4	2.86%	2	157	0.446%	2	157	0.481%
Epicoccum				1	78.4	2.86%	2	157	0.446%	13	1020	3.13%
Fusarium-like										9	705	2.16%
Myxomycete/Rust/Smut-like				21	1650	60.0%	>300	>23500	67.0%**	20	1570	4.81%
Nigrospora										4	313	0.962%
Pithomyces				2	157	5.71%	15	1180	3.35%	1	78.4	0.240%
Polythrincium										1	78.4	0.240%
Pyricularia										1	78.4	0.240%
Spegazzinia												
Torula										1	78.4	0.240%
Unknown/Other										11	862	2.64%
TOTAL	7	549	100.%	35	2740	100.%	>448	>35100	100.%	416	32600	100.%
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	-	-	-	1	78.4	-	24	1880	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	1	78.4	-	4	313	-
Skin Cell % of Total Debris		40-60%			40-60%			20-40%			N/A	
Total Debris in Background		20-40%			40-60%			60-80%			N/A	

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Analyst

Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Reliant Environmental

Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003

Customer: Reliant Environmental
92 Elaine Dr
Canton, NC 28716

Attn: Shane Moody

Project: ISS-CCE

Lab Order ID: 10120463
Analysis: STA
Date Received: 10/16/2026
Date Reported: 10/19/2026

Sample ID	484444									EXTERIOR		
Lab Sample ID	10120463_0052									AVERAGE		
Description	Exterior									N/A		
Lab Notes										N/A		
Volume (L)	75									N/A		
Analytical Sensitivity (counts/m³)	78									N/A		
IDENTIFICATION	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**	**Raw Count**	**Concentration (counts/m³)**	**% Of Total**
Alternaria	4	313	0.962%							4	313	0.962%
Ascospores	177	13900	42.5%							177	13900	42.5%
Aspergillus/Penicillium-like	11	862	2.64%							11	862	2.64%
Basidiospores	102	7990	24.5%							102	7990	24.5%
Cercospora-like	2	157	0.481%							2	157	0.481%
Cladosporium	46	3600	11.1%							46	3600	11.1%
Curvularia	11	862	2.64%							11	862	2.64%
Drechslera/Bipolaris	2	157	0.481%							2	157	0.481%
Epicoccum	13	1020	3.13%							13	1020	3.13%
Fusarium-like	9	705	2.16%							9	705	2.16%
Myxomycete/Rust/Smut-like	20	1570	4.81%							20	1570	4.81%
Nigrospora	4	313	0.962%							4	313	0.962%
Pithomyces	1	78.4	0.240%							1	78.4	0.240%
Polythrincium	1	78.4	0.240%							1	78.4	0.240%
Pyricularia	1	78.4	0.240%							1	78.4	0.240%
Spegazzinia												
Torula	1	78.4	0.240%							1	78.4	0.240%
Unknown/Other	11	862	2.64%							11	862	2.64%
TOTAL	**416**	**32600**	**100.%**	-	-	-	-	-	-	**416**	**32600**	**100.%**
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	11	862	-	-	-	-	-	-	-	11	862	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	-	-
Pollen	4	313	-	-	-	-	-	-	-	4	313	-
Skin Cell % of Total Debris		**0-20%**			**N/A**			**N/A**			**N/A**	
Total Debris in Background		**60-80%**			**N/A**			**N/A**			**N/A**	

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Darrin Parrick (52)
Analyst

Approved Signatory

Indoor Air Quality Testing
ISS – Coddle Creek Elementary
141 Franks Crossing Loop - Mooresville, NC

Scientific Analytical Institute
302-L Pomona Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 10120463
Client Code: _____

Company Contact Information	
Company: Reliant Environmental	Contact: Shane Moody
Address: 4 Elaine Dr.	Phone ☐:
Canton, NC 28716	Fax ☐:
	Email ☒: Smoody@reliantenviro.com

Billing/Invoice Information	Turn Around Times	
Company:	90 Min. ☐	48 Hours ☐
Contact:	3 Hours ☐	72 Hours ☐
Address: Same	6 Hours ☐	96 Hours ☐
	12 Hours ☐	120 Hours ☐
	24 Hours ☒	144+Hours ☐

PO Number:
Project Name/Number: ISS- CCE

Microbiology Test Types	
Spore Trap - Slit Impact, ie, AOC/Allergenco (STA)	☒
Spore Trap Other, ie, Micro-5 (STO)	☐
Direct Exam Tape (DET)	☐
Direct Exam Swab (DES)	☐
Direct Exam Bulk (DEB)	☐
Fungal Culture Air (FCA)	☐
Fungal Culture Swab (FCS)	☐
Fungal Culture Bulk (FCB)	☐
Bacteria Culture Air (BCA)	☐
Bacteria Culture Bulk (BCB)	☐
Bacteria Culture Swab (BCS)	☐
Biolog (BLG)	☐
Drinking Water (BCC) (Coliform/E.coli)	☐
Other:	☐

Sample ID #	Description/Location	Volume/Area	Comments
677613	D132	75.0 L	
677743	D131		
724715	D130		
677559	D127		
677715	D126		
677554	D125		
724627	D129		
677738	D110		
724516	D121		
677581	D122		
724546	D123		Accepted ☐
724516	D124		Rejected ☐
677723	C152		
677744	C151		
677701	C150		

Total # of Samples 52

Relinquished by	Date/Time	Received by	Date/Time
[signature]	10-15-20 4:00	CP	10/16
			10:30AM

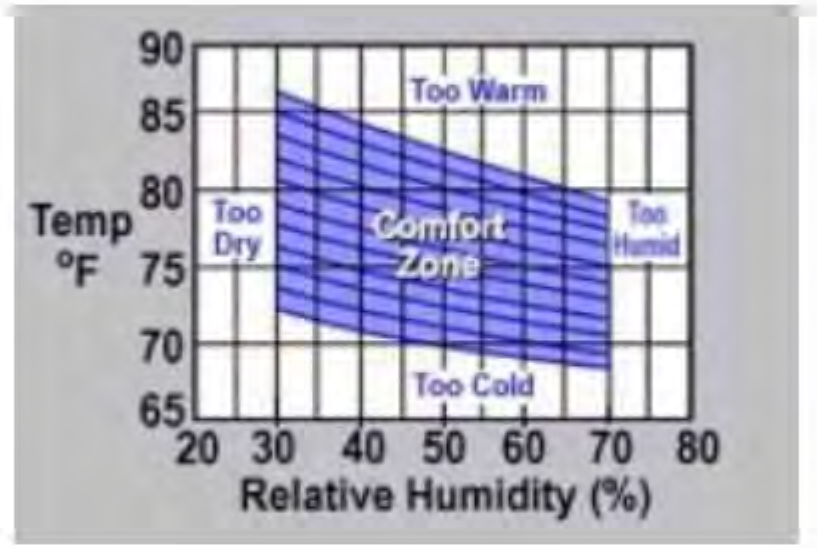
Scientific Analytical Institute
302-L Pomona Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 04163
Client Code: _____

Sample ID #	Description/Location	Volume/Area	Comments
677664	C149	75.0L	
677626	C148		
677601	C145		
677731	C144		
677732	C147		
677748	C142		
724549	C122		
677659	C123		
677556	C127		
724655	C128		
677724	C125		
677624	C138		
484382	C139		
677725	C141		
677658	B137		
677675	B138		
677621	B136		
677746	B133		
677666	B132		
677603	B129		
677661	B126		
677671	B103		
724679	B107		
724597	B108		
724545	B120		
677721	B121		
724548	B124		
677737	B135		
728413	B109		
724543	B102		
677681	C105		
677680	D104		
724515	D106		
677676	D103		
728368	Adm Corridor		
677565	Gym		
484444	Exterior		

APPENDIX B

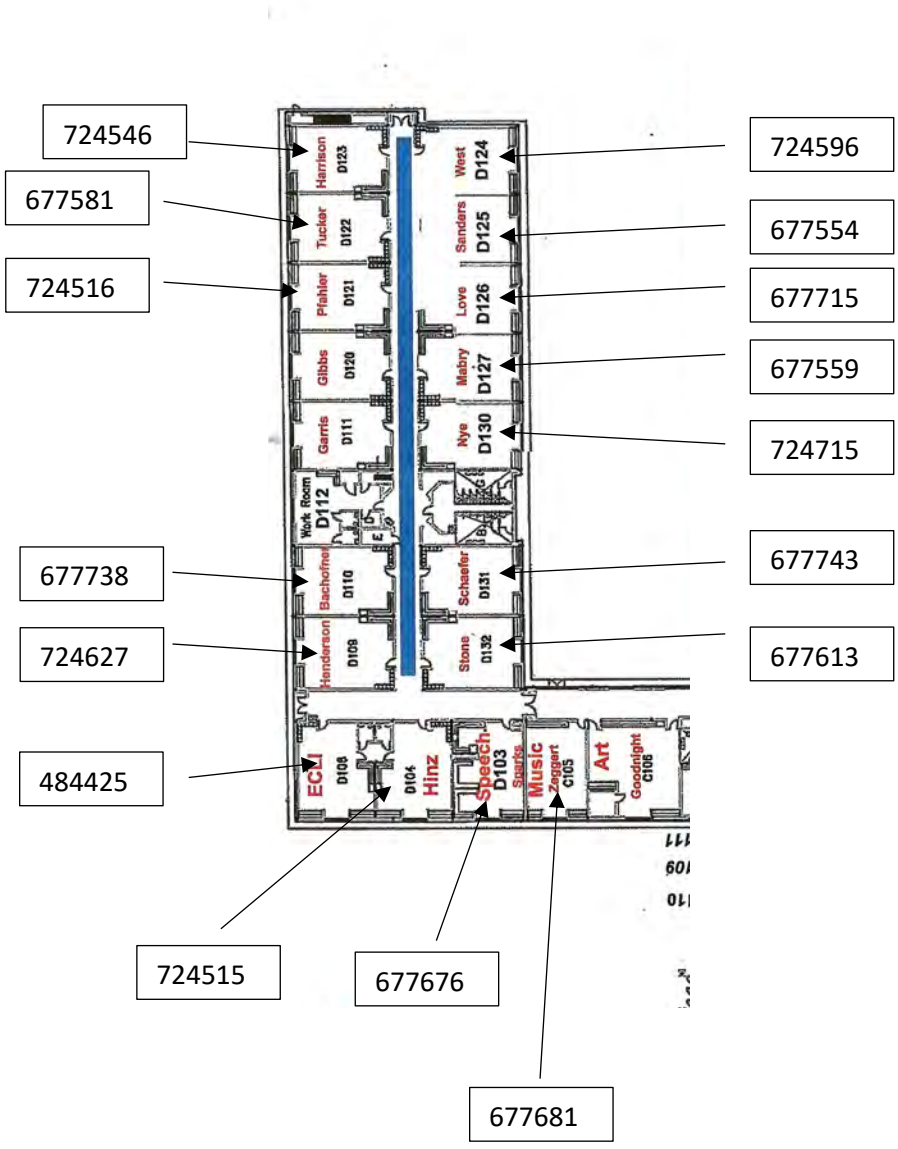
COMFORT ZONE GRAPH

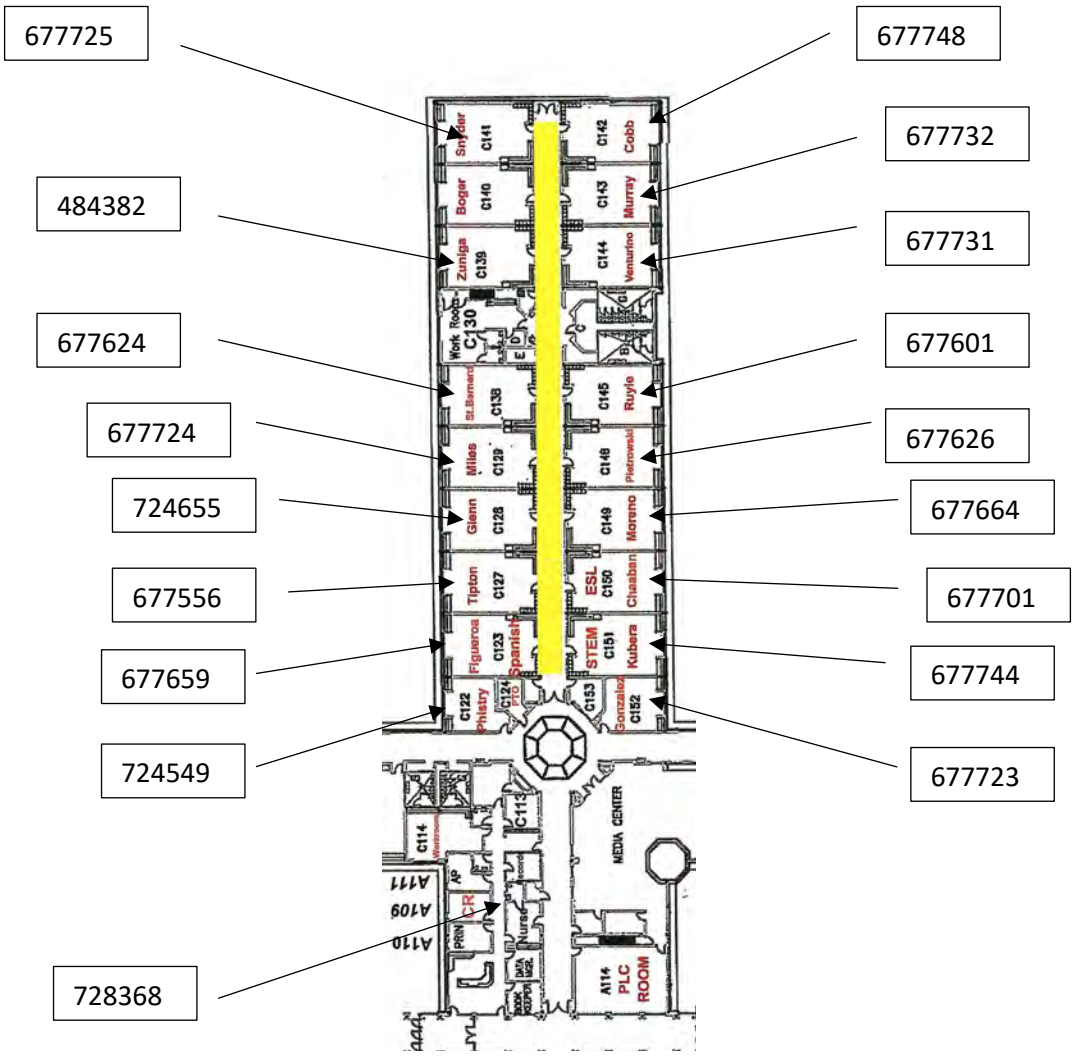


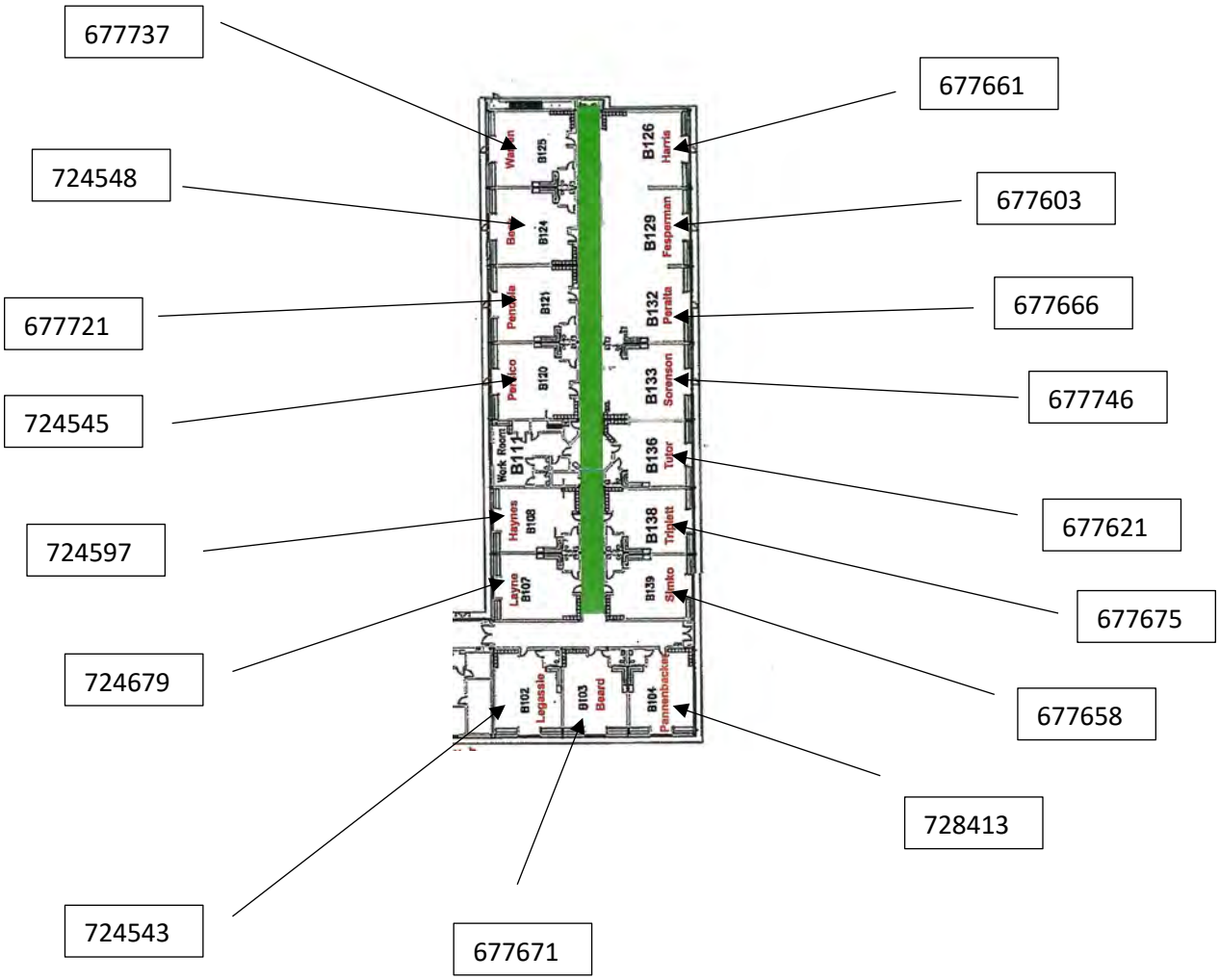
ASHRAE COMFORT ZONE

APPENDIX C

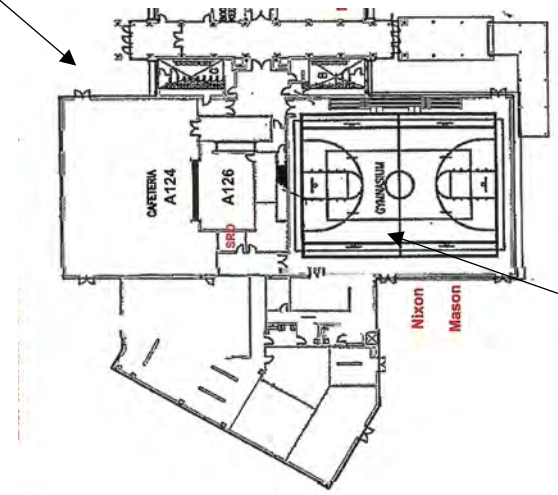
SAMPLE LOCATION DRAWING


724546
677581
724516
677738
724627
484425
724515
677676
677681
724596
677554
677715
677559
724715
677743
677613
Harrison D123
Tucker D122
Pfahler D121
Gibbs D120
Garris D111
Work Room D112
Bachofner D110
Henderson D109
ECI D108
D104
Hinz
Speech D103
Sparks
Music
Zaggart C105
Art
Goodnight C106
West D124
Sanders D125
Love D126
Mabry D127
Nye D130
Schaefer D131
Stone D132


677725
677748
677732
484382
677731
677624
677601
677724
677626
724655
677664
677556
677701
677659
677744
724549
677723
728368
C141
C142
Snyder
Cobb
C140
C143
Boger
Murray
C139
C144
Zuniga
Venturino
Work Room
C130
C138
C145
St.Bernard
Ruyle
C129
C146
Miles
Pietrowski
C128
C149
Glenn
Moreno
C127
C150
Tipton
ESL
Chanban
C123
C151
Figueroa
STEM
Kubera
Spanish
C122
C121
C153
C152
Phlstry
PTO
Gonzalez
C114
C111
MEDIA CENTER
A111
A109
A110
CR
PRIN
Nurse
A114
PLC
ROOM


677737
724548
677721
724545
724597
724679
724543
677671
677661
677603
677666
677746
677621
677675
677658
728413
B102
Legassie
B103
Beard
B104
Pannenbacker
B107
Layne
B108
Haynes
B111
Work Room
B120
Pedico
B121
Pentella
B124
Beard
B125
Walton
B126
Harris
B129
Fesperman
B132
Peralta
B133
Sorenson
B136
Tutor
B138
Triplett
B139
Simko

484444 – Exterior Sample



677565