



Environmental
& Remediation &
Management, Inc.

**LIMITED FUNGI (MOLD)
EVALAUTION**

CONDUCTED AT:

**Walton School
Wing C & D
601 Mountain Ave.,
Springfield, NJ 07081**

CONDUCTED FOR:

**Springfield Board of Education
139 Mountain Ave
Springfield, NJ 07081**

ER&M, INC. PROJECT NO.: 1035-282

REPORT PREPARED BY

FREDERICK LARSON

VP & ENVIRONMENTAL SPECIALIST

DECEMBER 22, 2017

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ATTACHED at the end: laboratory analytical reports, rough drawing layout of area of concern,
credentials



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Project No.: 1035-282

December 22, 2017

Mr. William Knorr, Supervisor of Bldgs & Grounds
Springfield Board of Education
139 Mountain Ave
Springfield, NJ 007081

Re: Limited Mold (fungi) air testingg & evaluation @ the Walton School, 601 Mountain Ave, Springfield, NJ 007081 (specifically the Wing C and D)

Dear Mr. Knorr;

As per your request, On December 19, 2017 ER&M, Inc.'s Technician performed air sampling and visual evaluation pertaining to suspected fungal (Mold) presence in Wings C & D (area of concern) of the school. Room 21 was of particular concern due to reported problematic univent issues.

The findings presented herein are subject to the limitations indicated at the end of this report.

1. Air-O-Cell sampling was performed to check for airborne fungal (mold) spores and other airborne particulates in every room in area of concern. Additionally, an outdoor background reference sample was collected for comparison purposes. Air-O-Cell samples were collected and analyzed using the manufactures procedures and guidelines. All samples were submitted to EMSL Analytical, Inc.'s laboratories in Piscataway, NJ, NY for analysis.

OBSERVANCES ON 12-19-2017

- No odor indicative of mold was observed by our technician at time of evaluation in any of the areas of concern. We were made aware that some disinfection an the removal of water damaged materials had taken place in room 21.
- Documentary pictures were taken in Room 21 as the main area of concern. Visually other rooms in the overall area of concern did not indicate mold colonization on the surface.
- In room 21 visible water staining and other discolorization typical of fungal contamination was observed. .
- The most apparent water /moisture issues were likely caused by problematic univent issues.

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RESULTS

Analysis of the Air-O-Cell cassettes indicated "Low and None Detected" airborne levels (spore counts) of common fungi in majority of the areas of concern. Room 21 indicated elevated "High" airborne levels (spore counts) of common fungi. Room 24 indicated "Moderate" total spore counts of common fungi, and was slightly lower than the outdoor comparison QA/QC sample.

Typically outside air samples are used to determine what kinds of molds and levels will be present for an indoor environment. The outside samples indicated a higher spore counts than any of the other samples collected with the exception of Room 21. (See attached laboratory reports).

The fungal spore type "*stachybotris*" (media deemed "toxic black mold") was not detected in any of the samples collected.

MOLD REPORT OVERVIEW

Molds are microscopic organisms that can be found almost everywhere. Their spores are lightweight allowing them to travel through air and when found in excessive quantities can cause allergic reactions.

The mold(s) identified in this report are often associated with soils, moisture enriched environments, water, and deteriorating materials such as cellulose (paper) based products. Mold is naturally present in outdoor environments, and can be a problem in indoor environments at high levels. Mold can grow on virtually any organic substance, as long as moisture and oxygen are present. When excessive moisture accumulates in buildings or on building materials, mold growth will often occur, particularly if the moisture problem remains undiscovered or unaddressed it is impossible to eliminate all molds and mold spores in the indoor environment. Since mold requires water/moisture to grow, it is important to prevent moisture problems in buildings.



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Since mold requires water/moisture to grow, it is important to prevent moisture problems in buildings. Some moisture problems in buildings have been linked to changes in building construction practices during the 1970's, 80's, and 90's. Some of these changes have resulted in buildings that are tightly sealed, but may lack adequate ventilation, which will potentially lead to moisture buildup. Building materials, such as drywall, may not allow moisture to escape easily. Moisture problems may include roof leaks, plumbing leaks, landscaping or gutters that direct water into or under the building, and unvented combustion appliances.

Active mold growth in indoor environments such as subject property is inappropriate and may lead to exposure and adverse health effects. The most common symptoms of mold exposure are runny nose, eye irritation, cough, congestion, and aggravation of asthma. Individuals with persistent health problems that appear to be related to mold or other types of air quality contaminant exposure should see their physicians for a referral to professionals who are trained in occupational/environmental medicine or related specialties and are knowledgeable about these types of exposures.

UNDERSTANDING TYPES OF MOLD

Allergenic molds are normally not dangerous in low amounts, but they can cause allergenic or asthmatic symptoms such as wheezing or a runny nose. These molds can be abated safely with the assistance of gloves and the use of respiratory protection, such as a disposable particulate-removing respirator.

Mycotoxic molds can cause serious health effects in humans and animals. Health effects range from short-term irritation, to immunosuppressant, to cancer and death. If any toxic molds are identified, it is suggested that you see advice from an Industrial Hygienist or other mold professional for guidance. The average homeowner should NOT attempt the removal of these types of mold.

Pathogenic molds can cause serious health effects in persons with suppressed immune systems, those taking chemotherapy, those with HIV/AIDS, or autoimmunity disorders. If any pathogenic molds identified, it is suggested you seek advice of an Industrial Hygienist or other mold professional for guidance. The average homeowner should NOT attempt the removal of these types of mold.



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Currently there are no official government standards or reference ranges for acceptable levels of microorganisms in fungi spore counts, air, bulk, and wipe samples derived from indoor environments. However, if Indoor fungi spore counts results are elevated they should be comparatively lower than the outside/ambient levels.

Dept of Health and Human Services - Centers for Disease Control and Prevention -
"standards for judging what is and what is not an acceptable or tolerable quantity of mold have not been established."

Since the USEPA or other governing bodies have not developed standards or reference ranges for acceptable levels of fungi (mold) spore counts, ER&M, Inc. has referenced other organizations and our experience and training for guidance in determining interpretation of results.

The National Allergy Bureau - : "Considers mold counts in air of 0-900 as low, to 2500 as moderate, to 25,000 as high, and above 25,000 as very high. At "high" levels most individuals with any sensitivity will experience symptoms. Acceptable levels for individual species vary since species toxicity varies widely as does spore size, weight, and other features which affect risk to building occupants. E.g. Aspergillus/Penicillium in a "clean" residential building study was at a mean of 230, in buildings known to have a moisture or flooding problem it was at 2235 and in mold contaminated buildings the figure was 36,037."

IN CONCLUSION

Based upon the information gathered during our evaluations, analysis of samples collected, ER&M, Inc. advises additional fungal/mold remediation for Room 21. Room 21 should remain sealed off from the rest of the school until further corrective measures can be implemented. A professional mold remediation company should be engaged to place room 21 under negative air pressure with the use of air scrubbers, then continue with disinfection of the room including but not limited to HEPA Vacuuming, scrubbing, fogging, wet wiping, industrial dehumidification, and anti microbial sealant application when appropriate. Some remediation companies also employ other disinfection processes such as UV light, dry ice etc. While chosen remediation company is on-site for Room 21, we advise the running of air scrubbers in Room 24 as a precautionary measure. After remediation has been performed, ER&M can collect air samples to confirm that remediation has been successful and the fungi airborne air concentrations in room 21 and 24 are within generally acceptable levels and not elevated above other areas of the school.



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The fungal species that were identified in this report are commonly found everywhere and usually pose little health problems except in very high concentrations and/or to individuals with diminished immune function. Please keep in mind that fungi testing has its limitations as airborne counts can vary greatly from day to day, season to season with a multitude of factors influencing fungal activity.

The fungi's discovered during this project are commonly found in the air of buildings and growing on damp surfaces. Fungi/Mold found indoors often comes from outdoor mold/fungi sources, consequentially the average person is exposed to some level of mold/fungi on a daily basis without apparent injury. Usually mold spores are the cause of health related problems only when inhaled in significant quantities.

Each person can react differently to mold and resistance among people varies significantly. A general rule to follow is; if mold is visible or its odor perceptible, corrective action to eliminate the excess moisture, as well as cleanup/ remove the mold/fungi and any material contaminated by it is necessary.

Should any univent, plumbing or other leaks occur, the moisture needs to be dried up as soon as possible and any materials that get moist or wet be dried and/or disposed. Moisture issues should be promptly addressed or the possibility of fungi growth is increased.

LIMITATIONS

The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services. The conclusions and recommendations contained in this report are based on limited environmental testing, and were arrived at in accordance with generally accepted standards of for limited fungi testing and evaluations. The testing conducted at the site was limited in scope, and cannot be considered representative of areas not tested, nor of time periods other than during the testing period.



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If you have any questions, or if we could be of any further assistance, please feel free to contact our office. ER&M, Inc. looks forward to providing you with the service and attention to detail that you have come to expect from us.

Sincerely,
ER&M Inc..

Frederick Larson, Vice President

Attached: Field Observations, laboratory analytical reports, rough drawing,
Contractor's certificate of completion, credentials



EMSL Analytical, Inc.

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Project: 1035-282/Springfield Board Of Ed, Walton School, 601 Mountain Ave, Springfield, NJ 07081

Phone: (973) 949-3525
Fax: (973) 949-3528
Collected: 12/19/2017
Received: 12/20/2017
Analyzed: 12/20/2017

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0001			051705691-0002			051705691-0003		
Client Sample ID:	SWM-01			SWM-02			SWM-03		
Volume (L):	150			150			150		
Sample Location:	Room 21			Room 22			Room 23		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	2	40	0.5	-	-	-	-	-	-
Aspergillus/Penicillium	27	550	7.2	-	-	-	-	-	-
Basidiospores	-	-	-	-	-	-	5	100	55.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	21	430	5.6	-	-	-	-	-	-
Cladosporium	20	410	5.4	-	-	-	1	20	11.1
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	1	20	11.1
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	26	530	7	-	-	-	2	40	22.2
Pithomyces	1	20	0.3	1	20	33.3	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	274	5620	73.8	2	40	66.7	-	-	-
Nigrospora	1	20	0.3	-	-	-	-	-	-
Total Fungi	372	7620	100	3	60	100	9	180	100
Hyphal Fragment	11	230	-	-	-	-	2	40	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
 Myxomycetes++ = Myxomycetes/Pariconia/Smul

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore structure, pollen, fiber particle or insect fragment. ... Denotes part. des found at 300X. * Denotes not detected. Due to method stopping rules raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc, Piscataway, NJ/HA-LAP, LLC-EMLAP Accredited #167035

Initial report from: 12/21/2017 08:27:27

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

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Phone: (973) 949-3525
Fax: (973) 949-3526
Collected: 12/19/2017
Received: 12/20/2017
Analyzed: 12/20/2017

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0004			051705691-0005			051705691-0006		
Client Sample ID:	SWM-04			SWM-05			SWM-06		
Volume (L):	150			150			150		
Sample Location:	Room 24			Room 20			Room 19		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	8	200	9.1	3	60	27.3	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	20	16.7
Basidiospores	21	430	19.6	4	80	36.4	1	20	16.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	10	210	9.6	-	-	-	1	20	16.7
Cladosporium	22	450	20.5	-	-	-	2	40	33.3
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	19	390	17.8	2	40	18.2	1	20	16.7
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	1	20	9.1	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	25	510	23.3	1	20	9.1	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	105	2190	100	11	220	100	6	120	100
Hyphal Fragment	3	60	-	2	40	-	1	20	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	3	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. * Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Piscataway NJ AHA-LAP, LLC-EMLAP Accredited #167035

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Phone: (973) 949-3525
Fax: (973) 949-3526
Collected: 12/19/2017
Received: 12/20/2017
Analyzed: 12/20/2017

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0007			051705691-0008			051705691-0009		
Client Sample ID:	SWM-07			SWM-08			SWM-09		
Volume (L):	150			150			150		
Sample Location:	Room 18			Room 17			Room 16		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascosporos	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	1	20	12.5	5	100	38.5	-	-	-
Basidiospores	4	80	50	4	80	30.8	2	40	100
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	20	7.7	-	-	-
Cladosporium	-	-	-	2	40	15.4	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	3	60	37.5	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	-	-	-	1	20	7.7	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	8	160	100	13	260	100	2	40	100
Hyphal Fragment	4	80	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smul

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Initial report from: 12/21/2017 08:27:27

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Collected: 12/19/2017
Received: 12/20/2017
Analyzed: 12/20/2017

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0010			051705691-0011			051705691-0012		
Client Sample ID:	SWM-10			SWM-11			SWM-12		
Volume (L):	150			150			150		
Sample Location:	Room 15			Room 14			Room 25		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	4	80	44.4	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	20	11.1	-	-	-
Cladosporium	-	-	-	1	20	11.1	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	3	60	33.3	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	-	None Detect	-	9	180	100	-	None Detect	-
Hyphal Fragment	-	-	-	1	20	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smul

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. * Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ AIHA LAP, LLC - EMLAP Accredited #167035

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Collected: 12/19/2017
Received: 12/20/2017
Analyzed: 12/20/2017

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0013			051705691-0014			051705691-0015		
Client Sample ID:	SWM-13			SWM-14			SWM-15		
Volume (L):	150			150			150		
Sample Location:	Room 26			Room 27			Room 28		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	5	100	27.8	4	80	66.7
Aspergillus/Penicillium	-	-	-	-	-	-	1	20	16.7
Basidiospores	1	20	12.5	5	100	27.8	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	4	80	50	1	20	5.6	-	-	-
Cladosporium	-	-	-	4	80	22.2	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	20	12.5	3	60	16.7	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	2	40	25	-	-	-	1	20	16.7
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	8	160	100	18	360	100	6	120	100
Hypheal Fragment	2	40	-	2	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Drechstera/Exserohilum
 Myxomycetes++ = Myxomycetes/Periconia/Smut

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. * Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ APHA-LAP, LLC-ENLAP Accredited #167035

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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0016			051705691-0017			051705691-0018		
Client Sample ID:	SWM-16			SWM-17			SWM-18		
Volume (L):	150			150			150		
Sample Location:	Room 29			Room 30			Room 31		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	1	20	14.3	4	80	14.5	1	20	7.4
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	2	40	28.6	1	20	3.6	10	210	77.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	13	270	49.1	-	-	-
Cladosporium	1	20	14.3	-	-	-	1	20	7.4
Curvularia	-	-	-	1	20	3.6	-	-	-
Epicoccum	-	-	-	1	20	3.6	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	2	40	28.6	4	80	14.5	-	-	-
Pithomyces	-	-	-	1	20	3.6	-	-	-
Rust	-	-	-	1	20	3.6	1	20	7.4
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulodadium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1	20	3.6	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	1	20	14.3	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	7	140	100	27	550	100	13	270	100
Hyphal Fragment	-	-	-	4	80	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	4	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	3	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present + Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. * Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.
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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0019			051705691-0020			051705691-0021		
Client Sample ID:	SWM-19			SWM-20			SWM-21		
Volume (L):	150			150			150		
Sample Location	Room 32			Room 33			Room 34		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	1	20	6.3
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	-	-	-	3	60	18.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	8	200	62.5
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	2	40	12.5
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	-	None Detect	-	-	None Detect	-	14	320	100
Hyphal Fragment	-	-	-	-	-	-	1	20	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Drechislera/Exserohilum
 Myxomycetes++ = Myxomycetes/Periconia/Smut

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank, corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes part des found at 300X. ** Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

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 Received: 12/20/2017
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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0022			051705691-0023			051705691-0024		
Client Sample ID:	SWM-22			SWM-23			SWM-24		
Volume (L):	150			150			150		
Sample Location	Room 35			Room 36			Room 37		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	2	40	33.3	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	2	40	33.3	1	20	50	1	20	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	1	20	16.7	-	-	-	-	-	-
Cladosporium	1	20	16.7	1	20	50	1	20	50
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	-	-	-
Microascus	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	6	120	100	2	40	100	2	40	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
 Myxomycetes++ = Myxomycetes/Periconia/Smut

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Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	051705691-0025			051705691-0026			051705691-0027		
Client Sample ID:	SWM-25			SWM-26			SWM-27		
Volume (L):	150			150			150		
Sample Location:	Room 38			Room 39			Outside Bldg By Room 14-Background		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	17	350	15
Aspergillus/Penicillium	-	-	-	1	20	42.6	6	100	4.3
Basidiospores	3	60	100	-	-	-	64	1300	55.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1	20	42.6	-	-	-
Cladosporium	-	-	-	1*	7*	14.9	18	370	15.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	4	80	3.4
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	7	100	4.3
Pithomyces	-	-	-	-	-	-	1	20	0.9
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Botrytis	-	-	-	-	-	-	1	20	0.9
Microascus	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	-	-	-
Total Fungi	3	60	100	3	47	100	118	2340	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

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& Remediation &
Management, Inc.**

20-10 Maple Ave, Bldg. 35E
Fair Lawn, NJ 07410
Tele: (973) 949-3525
Fax: (973) 949-3526
Email: ermnj@aol.com

051705691
051705099

CLIENT: Springfield Board of Education ADDRESS: 139 Mountain Ave Springfield NJ 07081
PROJECT: WALTON School ADDRESS: 601 Mountain Ave Springfield NJ 07081
TECH: A Lence SAMPLING DATE: 12/19/17 CALIB. DATE: 12/14/17 PR. No.: 1035-282

AIR-O-Cell (fungi) MONITORING DATA SHEET

Sample No.	Sample Location	Time on	Time on	Elapsed Time (Min)	Flow Rate (LPM)	Volume Liters	Air-O-Cell Serial #
SWM-01	Room 21	2:48	2:58	10	15.0	150	2420 5818
SWM-02	Room 22	3:20	3:30	10	15.0	150	2420 5440
SWM-03	Room 23	3:21	3:31	10	15.0	150	2420 5507
SWM-04	Room 24	3:22	3:32	10	15.0	150	2420 5505
SWM-05	Room 20	3:23	3:33	10	15.0	150	2420 5436

Analysis Type: Total Fungal Spore Count - Air-O-Cell

Chain of Custody

Relinquished By:	Received By:	Date / Time
<i>[Signature]</i>		

TAT: 24 Hour TAT requested

Laboratory Submitted To: EMSL Analytical, Inc.

Fax Results (973) - 949 - 3526

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Tele: (973) 949-3525
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Email: ermnj@aol.com

CLIENT: Springfield Board of Ed ADDRESS: 139 Mountain Ave Springfield NJ 07081
PROJECT: Wethers School ADDRESS: 661 Mountain Ave Springfield NJ 07081
TECH: A Leverage SAMPLING DATE: 12/19/17 CALIB. DATE: 12/19/17 PR. No.: 1035-282

AIR-O-Cell (fungi) MONITORING DATA SHEET

Sample No.	Sample Location	Time on	Time off	Elapsed Time (Min)	Flow Rate (LPM)	Volume (Liters)	Air-O-Cell Serial #
SWM-06	Room 19	3:35	3:45	10	15.0	150	24205410
SWM-07	Room 18	3:36	3:46	10	15.0	150	24205409
SWM-08	Room 17	3:37	3:47	10	15.0	150	24205624
SWM-09	Room 16	3:38	3:48	10	15.0	150	24205424
SWM-10	Room 15	3:48	3:58	10	15.0	150	24205453

Analysis Type: Total Fungal Spore Count - Air-O-Cell

Chain of Custody

Relinquished By:	Received By:	Date / Time
<i>[Signature]</i>		

TAT: 24 Hour TAT requested

Laboratory Submitted To: EMSL Analytical, Inc.

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 Fair Lawn, NJ 07410
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 Fax: (973) 949-3526
 Email: ermnj@aol.com

CLIENT: Springfield Board of Ed. ADDRESS: 139 Mountain Ave Springfield NJ 07081
 PROJECT: Walton School ADDRESS: 601 Mountain Ave Springfield N.J. 07081
 TECH: A. Lawrence SAMPLING DATE: 12/19/17 CALIB. DATE: 12/19/17 PR. No.: D35-282

AIR-O-Cell (fungi) MONITORING DATA SHEET

Sample No.	Sample Location	Time On	Time off	Elapsed Time (Min)	Flow Rate (LPM)	Volume Liters	Air-O-Cell Serial #
SWH-11	Room 14	3:50	4:00	10	15.0	150	24205412
SWH-12	Room 25	4:05	4:15	10	15.0	150	24205669
SWH-13	Room 26	4:06	4:16	10	15.0	150	24205612
SWH-14	Room 27	4:07	4:17	10	15.0	150	24205476
SWH-15	Room 28	4:08	4:18	10	15.0	150	24205438

Analysis Type: Total Fungal Spore Count - Air-O-Cell

Chain of Custody

Relinquished By:	Received By:	Date / Time
<i>[Signature]</i>		

TAT: 2 1/2 Hour TAT requested

Laboratory Submitted To: EMSL Analytical, Inc.

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 Tele: (973) 949-3525
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 Email: ermnj@aol.com

CLIENT: Springfield Board of Ed ADDRESS: 139 Mountain Ave
 PROJECT: Washington School ADDRESS: 601 Mountain Ave Springfield NJ 07081
 TECH: A Lawrence SAMPLING DATE: 12 11 17 CALIB. DATE: 12/19/17 PR. No.: 1035-282

AIR-O-Cell (fungi) MONITORING DATA SHEET

Sample No.	Sample Location	Time on	Time on	Elapsed Time (Min)	Flow Rate (LPM)	Volume Liters	Air-O-Cell Serial #
SUM-16	Room 29	420	430	10	15.0	150	2420 5411
SUM-17	Room 30	421	431	10	15.0	150	2420 5413
SUM-18	Room 31	422	432	10	15.0	150	2420 5484
SUM-19	Room 32	423	433	10	15.0	150	2420 5503
SUM-20	Room 33	435	445	10	15.0	150	2420 5501

Analysis Type: Total Fungal Spore Count - Air-O-Cell

Chain of Custody

Relinquished By:	Received By:	Date / Time
<i>[Signature]</i>		

TAT: 24 Hour TAT requested

Laboratory Submitted To: EMSL Analytical, Inc.

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 Tele: (973) 949-3525
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 Email: ermnj@aol.com

CLIENT: Springfield Board of Ed ADDRESS: 139 Mountain Ave Springfield NJ 07081
 PROJECT: Walton School ADDRESS: 601 Mountain Ave Springfield NJ 07081
 TECH: A Lawrence SAMPLING DATE: 12/19/17 CALIB. DATE: 12/19/17 PR. No.: 035-282

AIR-O-Cell (fungi) MONITORING DATA SHEET

Sample No.	Sample Location	Time on	Time off	Elapsed Time (Min)	Flow Rate (LPM)	Volume Liters	Air-O-Cell Serial #
SMM-21	Room 34	4:34	4:46	10	15.0	150	24205433
SMM-22	Room 35	4:37	4:47	10	15.0	150	24205452
SMM-23	Room 36	4:38	4:48	10	15.0	150	24205494
SMM-24	Room 37	4:50	5:00	10	15.0	150	24205471
SMM-25	Room 38	4:51	5:01	10	15.0	150	24205442

Chain of Custody

Relinquished By:	Received By:	Date / Time
<i>[Signature]</i>		

Analysis Type: Total Fungal Spore Count - Air-O-Cell

TAT: 24 Hour TAT requested

Laboratory Submitted To: EMSL Analytical, Inc.

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 Email: ermnj@aol.com

CLIENT: Springfield Board of Ed ADDRESS: 139 Mountain Ave Springfield NJ 07081
 PROJECT: W. Len School ADDRESS: 601 Mountain Ave Springfield NJ 07081
 TECH: Alexander SAMPLING DATE: 12/19/17 CALIB. DATE: 12/19/17 PR. No.: _____

AIR-O-Cell (fungi) MONITORING DATA SHEET

Sample No.	Sample Location	Time On	Time Off	Elapsed Time (Min)	Flow Rate (LPM)	Volume Liters	Air-O-Cell Serial #
SWM-26	Room 39	4:53	5:03	10	15.0	150	2420 5496
SWM-27	Outside by Room 14 - Backyard Bldg	3:52	4:02	10	15.0	150	2506 8441
					15.0		
					15.0		

Chain of Custody

Relinquished By:	Received By:	Date / Time
<i>[Signature]</i>		

Analysis Type: Total Fungal Spore Count - Air-O-Cell

TAT: 24 Hour TAT requested

Laboratory Submitted To: EMSL Analytical, Inc.

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EDWARD V. WALTON SCHOOL

2017-18

PK - Grade 2

Springfield, NJ

