



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-0262  
<http://www.EMSL.com> / [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)












Order ID: 372312811  
 Customer ID: SPOT50  
 Customer PO:  
 Project ID:

**Attn:** Asbestos Division  
 Spotts Stevens and McCoy, Inc.  
 1047 North Park Road  
 Reading, PA 19610

**Phone:** (610) 621-2000  
**Fax:**  
**Collected:** 08/16/2023  
**Received:** 08/17/2023  
**Analyzed:** 08/21/2023

**Proj:** 109944.0017/Mc Call Middle School





## Spore Trap ASSESSMENT Report™ Air-O-Cell™ Analysis of Fungal Spores & Particulates (Methods MICRO-SOP-201, ASTM D7391)

	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312811-0001	Alternaria (Ulocladium)	1*	10*	5.6	Acceptable   
	Ascospores	1	40	22.2	Acceptable 
Client Sample ID MC.8.16.01	Aspergillus/Penicillium	-	-	-	Acceptable
	Basidiospores	1	40	22.2	Acceptable  
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
Location Library	Cladosporium	1	40	22.2	Acceptable 
	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
Sample Volume (L) 75	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
	Myxomycetes++	1*	10*	5.6	Acceptable  
Sample Type Inside	Pithomyces++	1	40	22.2	Acceptable  
	Rust	-	-	-	Acceptable
	Scopulariopsis/Microascus	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
Comments	Unidentifiable Spores	-	-	-	Acceptable
	Arthrinium	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	<b>Total Fungi</b>	<b>6</b>	<b>180</b>	<b>100</b>	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

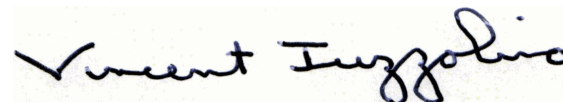
Analytical Sensitivity 600x: **44** counts/cubic meter  
 Analytical Sensitivity 300x \*: **13\*** counts/cubic meter

Skin Fragments: **2** 1 to 4 (low to high)  
 Fibrous Particulate: **1** 1 to 4 (low to high)  
 Background: **2** 1 to 4 (low to high); **5** (overloaded)

**Acceptable** Concentration at or below background  
**Slightly Elevated** Concentration above background  
**ELEVATED** Concentration 10X or more above background

 Not commonly found growing indoors, spores likely come from outside.  
 Spores reported to be able to cause allergies in individuals.  
 Potential for mycotoxin production exists with these fungi.  
 These fungi are considered water damage indicators.

Bipolaris++ = Bipolaris / Drechslera / Exserohilum  
 Myxomycetes++ = Myxomycetes / Sluit /



Initial report from: 08/21/2023 15:11:40

Vincent Iuzzolino, M.S., Laboratory Director  
 or Other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the



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## Spore Trap ASSESSMENT Report™ Air-O-Cell™ Analysis of Fungal Spores & Particulates (Methods MICRO-SOP-201, ASTM D7391)

	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312811-0002	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	6	300	12	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	-	-	-	Acceptable
MC.8.16.02	Basidiospores	50	2200	88	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
<b>Location</b>	Cladosporium	-	-	-	Acceptable
Hall O/S Gym	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
<b>Sample Volume (L)</b>	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	-	-	-	Acceptable
<b>Sample Type</b>	Rust	-	-	-	Acceptable
	Scopulariopsis/Microascus	-	-	-	Acceptable
Inside	Stachybotrys/Memnoniella	-	-	-	Acceptable
<b>Comments</b>	Unidentifiable Spores	-	-	-	Acceptable
	Arthrinium	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	<b>Total Fungi</b>	<b>56</b>	<b>2500</b>	<b>100</b>	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

Analytical Sensitivity 600x: **44** counts/cubic meter  
Analytical Sensitivity 300x \*: **13\*** counts/cubic meter

Skin Fragments: **1** 1 to 4 (low to high)  
Fibrous Particulate: **1** 1 to 4 (low to high)  
Background: **1** 1 to 4 (low to high) 5 (overloaded)

**Acceptable** Concentration at or below background  
**Slightly Elevated** Concentration above background  
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Myxomycetes++ = Myxomycetes / Sluit /

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312811-0003	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	2	90	8.9	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	9	400	39.6	Slightly Elevated
MC.8.16.03	Basidiospores	11	490	48.5	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
<b>Location</b>	Cladosporium	1*	10*	1	Acceptable
Rm 141	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
<b>Sample Volume (L)</b>	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	1*	10*	1	Acceptable
<b>Sample Type</b>	Rust	1*	10*	1	Acceptable
Inside	Scopulariopsis/Microascus	-	-	-	Acceptable
	Stachybotrys/Memnoniella	-	-	-	Acceptable
<b>Comments</b>	Unidentifiable Spores	-	-	-	Acceptable
	Arthrinium	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	<b>Total Fungi</b>	<b>25</b>	<b>1010</b>	<b>100</b>	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

Analytical Sensitivity 600x: **44** counts/cubic meter  
Analytical Sensitivity 300x \*: **13\*** counts/cubic meter

Skin Fragments: **2** 1 to 4 (low to high)  
Fibrous Particulate: **1** 1 to 4 (low to high)  
Background: **1** 1 to 4 (low to high) 5 (overloaded)

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312811-0004	Alternaria (Ulocladium)	-	-	-	Acceptable
	Ascospores	3	100	14.3	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	4	200	28.6	Slightly Elevated
MC.8.16.04	Basidiospores	8	400	57.1	Acceptable
	Bipolaris++	-	-	-	Acceptable
	Chaetomium++	-	-	-	Acceptable
<b>Location</b>	Cladosporium	-	-	-	Acceptable
2nd Floor Hall	Curvularia	-	-	-	Acceptable
	Epicoccum	-	-	-	Acceptable
<b>Sample Volume (L)</b>	Fusarium++	-	-	-	Acceptable
	Ganoderma	-	-	-	Acceptable
75	Myxomycetes++	-	-	-	Acceptable
	Pithomyces++	-	-	-	Acceptable
<b>Sample Type</b>	Rust	-	-	-	Acceptable
	Scopulariopsis/Microascus	-	-	-	Acceptable
Inside	Stachybotrys/Memnoniella	-	-	-	Acceptable
<b>Comments</b>	Unidentifiable Spores	-	-	-	Acceptable
	Arthrimum	-	-	-	Acceptable
	Peronospora++	-	-	-	Acceptable
	Polythrincium	-	-	-	Acceptable
	Pyricularia	-	-	-	Acceptable
	<b>Total Fungi</b>	<b>15</b>	<b>700</b>	<b>100</b>	Acceptable
	Hyphal Fragment	-	-	-	Acceptable
	Insect Fragment	-	-	-	Acceptable
	Pollen	-	-	-	Acceptable

Analytical Sensitivity 600x: **44** counts/cubic meter  
Analytical Sensitivity 300x \*: **13\*** counts/cubic meter

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312811-0005	Alternaria (Ulocladium)	-	-	-	
	Ascospores	43	1900	3.8	
<b>Client Sample ID</b>	Aspergillus/Penicillium	-	-	-	
EXT.8.16.01	Basidiospores	1060	46800	93.5	
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
<b>Location</b>	Cladosporium	26	1100	2.2	
McCall	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium++	-	-	-	
	Ganoderma	4	200	0.4	
75	Myxomycetes++	-	-	-	
	Pithomyces++	1	40	0.1	
<b>Sample Type</b>	Rust	-	-	-	
Background	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Arthrinium	-	-	-	
	Peronospora++	-	-	-	
	Polythrincium	-	-	-	
	Pyricularia	-	-	-	
	<b>Total Fungi</b>	<b>1134</b>	<b>50040</b>	<b>100</b>	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312811-0006	Alternaria (Ulocladium)	-	-	-	
	Ascospores	71	3100	6.9	
<b>Client Sample ID</b>	Aspergillus/Penicillium	-	-	-	
EXT.8.16.02	Basidiospores	913	40300	89.3	
	Bipolaris++	2	90	0.2	
	Chaetomium++	-	-	-	
<b>Location</b>	Cladosporium	23	1000	2.2	
Lyter	Curvularia	1*	10*	0	
	Epicoccum	1	40	0.1	
<b>Sample Volume (L)</b>	Fusarium++	-	-	-	
	Ganoderma	4	200	0.4	
75	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	1	40	0.1	
	Scopulariopsis/Microascus	-	-	-	
Background	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	2	90	0.2	
	Arthrinium	2*	30*	0.1	
	Peronospora++	1	40	0.1	
	Polythrincium	4	200	0.4	
	Pyricularia	1*	10*	0	
	<b>Total Fungi</b>	<b>1026</b>	<b>45150</b>	<b>100</b>	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

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# EMSL Analytical, Inc.

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Order ID: 372312811  
 Customer ID: SPOT50  
 Customer PO:  
 Project ID:

**Attn:** Asbestos Division  
 Spotts Stevens and McCoy, Inc.  
 1047 North Park Road  
 Reading, PA 19610

**Phone:** (610) 621-2000  
**Fax:**  
**Collected:** 08/16/2023  
**Received:** 08/17/2023  
**Analyzed:** 08/21/2023

**Proj:** 109944.0017/Mc Call Middle School

## Spore Trap ASSESSMENTReport™ Air-O-Cell™ Analysis of Fungal Spores & Particulates (Methods MICRO-SOP-201, ASTM D7391)

	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
372312811-0007	Alternaria (Ulocladium)	1	40	0.2	
	Ascospores	55	2400	10.1	
<b>Client Sample ID</b> EXT.8.16.03	Aspergillus/Penicillium	2	90	0.4	
	Basidiospores	462	20400	85.8	
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
<b>Location</b> High School	Cladosporium	13	570	2.4	
	Curvularia	1	40	0.2	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b> 75	Fusarium++	-	-	-	
	Ganoderma	4	200	0.8	
	Myxomycetes++	1*	10*	0	
<b>Sample Type</b> Background	Pithomyces++	-	-	-	
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
<b>Comments</b>	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Arthrinium	-	-	-	
	Peronospora++	-	-	-	
	Polythrincium	1	40	0.2	
	Pyricularia	-	-	-	
	<b>Total Fungi</b>	<b>540</b>	<b>23790</b>	<b>100</b>	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	
		-	-	-	
Analytical Sensitivity 600x: <b>44</b> counts/cubic meter					Skin Fragments: <b>1</b> 1 to 4 (low to high)
Analytical Sensitivity 300x *: <b>13*</b> counts/cubic meter					Fibrous Particulate: <b>1</b> 1 to 4 (low to high)
					Background: <b>1</b> 1 to 4 (low to high) 5 (overloaded)

- Not commonly found growing indoors, spores likely come from outside.
- Spores reported to be able to cause allergies in individuals.
- Potential for mycotoxin production exists with these fungi.
- These fungi are considered water damage indicators.

Bipolaris++ = Bipolaris / Drechslera / Exserohilum  
 Myxomycetes++ = Myxomycetes / Sluit /

Initial report from: 08/21/2023 15:11:40

Vincent Iuzzolino, M.S., Laboratory Director  
 or Other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the