



# 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

Order ID: 371820045  
Customer ID: AHER50  
Customer PO:  
Project ID: Woodbridge School

**Attn:** John Smoyer  
Ahera Consultants, Inc.  
PO Box 385  
Oceanville, NJ 08231-0385

**Phone:** (609) 652-1833  
**Fax:** (609) 652-1140  
**Collected:**  
**Received:** 10/31/2018  
**Analyzed:** 11/02/2018

**Proj:** Client: Woodbridge Twp School District / Job #: 18-3262 / Project: Indiana Avenue School #18 - IAQ Monitoring  
(Woodbridge School #18)

### 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
371820045-0001	Alternaria (Ulocladium)	-	-	-	
	Ascospores	9	200	5.7	Slightly Elevated
<b>Client Sample ID</b>	Aspergillus/Penicillium	14	310	8.8	ELEVATED
32621030-01	Basidiospores	103	2280	64.9	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	3	70	2	Acceptable
Main Office - Q-01	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	2*	10*	0.3	Acceptable
	Myxomycetes++	23	510	14.5	ELEVATED
	Pithomyces++	1*	7*	0.2	Slightly Elevated
<b>Sample Type</b>	Rust	1	20	0.6	Slightly Elevated
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	1*	7*	0.2	Slightly Elevated
	Zygomycetes	-	-	-	
	Bispora	1	20	0.6	Slightly Elevated
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	1*	7*	0.2	Acceptable
	Spegazzinia	-	-	-	
	Torula-like	3	70	2	Slightly Elevated
	<b>Total Fungi</b>	<b>162</b>	<b>3511</b>	<b>100</b>	<b>Acceptable</b>
	Hyphal Fragment	6	100	-	Slightly Elevated
	Insect Fragment	2*	10*	-	Slightly Elevated
	Pollen	-	-	-	

Analytical Sensitivity 600x: 22 counts/cubic meter  
Analytical Sensitivity 300x \*: 7\* counts/cubic meter

Skin Fragments: 3 1 to 4 (low to high)  
Fibrous Particulate: 1 1 to 4 (low to high)  
Background: 3 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 / Smut /

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

Initial report from: 11/02/2018 11:20:24

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
371820045-0002	Alternaria (Ulocladium)	-	-	-	
	Ascospores	1	20	0.8	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	4	90	3.6	Slightly Elevated
32621030-02	Basidiospores	89	2000	78.9	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	1	20	0.8	Acceptable
Principal's Office (Old) -	Curvularia	-	-	-	
Q-02	Epicoccum	1*	7*	0.3	Slightly Elevated
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	1*	7*	0.3	Acceptable
	Myxomycetes++	16	350	13.8	Slightly Elevated
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	1	20	0.8	Slightly Elevated
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromeliosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	1	20	0.8	Slightly Elevated
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>115</b>	<b>2534</b>	<b>100</b>	<b>Acceptable</b>
	Hyphal Fragment	5	100	-	Slightly Elevated
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 22 counts/cubic meter  
Analytical Sensitivity 300x \*: 7\* 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)

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- These fungi are considered water damage indicators.

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
371820045-0003	Alternaria (Ulocladium)	-	-	-	
	Ascospores	-	-	-	
<b>Client Sample ID</b>	Aspergillus/Penicillium	3	70	5	<b>Slightly Elevated</b>
32621030-03	Basidiospores	60	1300	92.2	<b>Acceptable</b>
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	1	20	1.4	<b>Acceptable</b>
Faculty Room - Q-03	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	1	20	1.4	<b>Acceptable</b>
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>65</b>	<b>1410</b>	<b>100</b>	<b>Acceptable</b>
	Hyphal Fragment	1	20	-	<b>Acceptable</b>
	Insect Fragment	-	-	-	
	Pollen	3*	20*	-	<b>Slightly Elevated</b>

Analytical Sensitivity 600x: **22** counts/cubic meter  
Analytical Sensitivity 300x \*: **7\*** 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)

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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
371820045-0004	Alternaria (Ulocladium)	-	-	-	
	Ascospores	2*	10*	0.8	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	2*	10*	0.8	Slightly Elevated
32621030-04	Basidiospores	45	990	82.7	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	-	-	-	
Media Center - Q-04	Curvularia	1*	7*	0.6	Slightly Elevated
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	4	90	7.5	Slightly Elevated
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	4	90	7.5	Slightly Elevated
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromeloporium++	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>58</b>	<b>1197</b>	<b>100</b>	Acceptable
	Hyphal Fragment	2	40	-	Acceptable
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

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Client Sample ID	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
371820045-0005	Alternaria (Ulocladium)	-	-	-	
	Ascospores	2	40	3.5	Acceptable
Client Sample ID	Aspergillus/Penicillium	11	240	21.1	ELEVATED
32621030-05	Basidiospores	37	820	71.9	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location	Cladosporium	1	20	1.8	Acceptable
Media Center HVAC Closet	Curvularia	-	-	-	
- Q-05	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	2*	10*	0.9	Acceptable
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	2*	10*	0.9	Slightly Elevated
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>55</b>	<b>1140</b>	<b>100</b>	<b>Acceptable</b>
	Hyphal Fragment	1*	7*	-	Acceptable
	Insect Fragment	1*	7*	-	Slightly Elevated
	Pollen	-	-	-	

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371820045-0006	Alternaria (Ulocladium)	-	-	-	
	Ascospores	2	40	0.9	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	86	1900	45.1	ELEVATED
32621030-06	Basidiospores	80	1800	42.7	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	21	460	10.9	Slightly Elevated
Courtyard Storage - Q06	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	1*	7*	0.2	Acceptable
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	1*	7*	0.2	Acceptable
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>191</b>	<b>4214</b>	<b>100</b>	<b>Acceptable</b>
	Hyphal Fragment	1	20	-	Acceptable
	Insect Fragment	3	70	-	Slightly Elevated
	Pollen	-	-	-	

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PO Box 385  
Oceanville, NJ 08231-0385  
**Phone:** (609) 652-1833  
**Fax:** (609) 652-1140  
**Collected:**  
**Received:** 10/31/2018  
**Analyzed:** 11/02/2018

**Proj:** Client: Woodbridge Twp School District / Job #: 18-3262 / Project: Indiana Avenue School #18 - IAQ Monitoring  
(Woodbridge School #18)

### 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
371820045-0007	Alternaria (Ulocladium)	-	-	-	
	Ascospores	4	90	3.9	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	3	70	3	Slightly Elevated
32621030-07	Basidiospores	88	1900	81.7	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	11	240	10.3	Slightly Elevated
Nurse's Office - Q-07	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	1	20	0.9	Acceptable
	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	1*	7*	0.3	Slightly Elevated
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>108</b>	<b>2327</b>	<b>100</b>	<b>Acceptable</b>
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 22 counts/cubic meter  
Analytical Sensitivity 300x \*: 7\* 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)

- 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 / Smut /

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

Initial report from: 11/02/2018 11:20:24

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For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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Order ID: 371820045  
Customer ID: AHER50  
Customer PO:  
Project ID: Woodbridge School

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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
371820045-0008	Alternaria (Ulocladium)	-	-	-	
	Ascospores	1	20	2.2	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	23	510	56.7	ELEVATED
32621030-08	Basidiospores	13	290	32.2	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	1	20	2.2	Acceptable
PTO Closet - (PTO) - Q-08	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	2	40	4.4	Acceptable
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	1	20	2.2	Slightly Elevated
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>41</b>	<b>900</b>	<b>100</b>	Acceptable
	Hyphal Fragment	1	20	-	Acceptable
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 22 counts/cubic meter  
Analytical Sensitivity 300x \*: 7\* 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)

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

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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
371820045-0009	Alternaria (Ulocladium)	-	-	-	
	Ascospores	-	-	-	
<b>Client Sample ID</b>	Aspergillus/Penicillium	9	200	15.9	Slightly Elevated
32621030-09	Basidiospores	43	950	75.4	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	1	20	1.6	Acceptable
Chartwells Food Prep	Curvularia	-	-	-	
Room - Q-09	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	3	70	5.6	Slightly Elevated
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	1	20	1.6	Slightly Elevated
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>57</b>	<b>1260</b>	<b>100</b>	Acceptable
	Hyphal Fragment	2	40	-	Acceptable
	Insect Fragment	-	-	-	
	Pollen	1*	7*	-	Acceptable
Analytical Sensitivity 600x: 22 counts/cubic meter		Skin Fragments: 3		1 to 4 (low to high)	
Analytical Sensitivity 300x *: 7* counts/cubic meter		Fibrous Particulate: 1		1 to 4 (low to high)	
		Background: 3		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

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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
371820045-0010	Alternaria (Ulocladium)	-	-	-	
	Ascospores	1	20	0.9	Acceptable
<b>Client Sample ID</b>	Aspergillus/Penicillium	4	90	4.1	Slightly Elevated
32621030-10	Basidiospores	75	1700	77.5	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	4	90	4.1	Acceptable
APR - Q-10	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	12	270	12.3	Slightly Elevated
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	2*	10*	0.5	Slightly Elevated
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
<b>Comments</b>	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Bispora	1*	7*	0.3	Slightly Elevated
	Chromelosporium++	1*	7*	0.3	Slightly Elevated
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>100</b>	<b>2194</b>	<b>100</b>	<b>Acceptable</b>
	Hyphal Fragment	6	100	-	Slightly Elevated
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 22 counts/cubic meter  
Analytical Sensitivity 300x \*: 7\* counts/cubic meter

Skin Fragments: 3 1 to 4 (low to high)  
Fibrous Particulate: 1 1 to 4 (low to high)  
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	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
371820045-0011	Alternaria (Ulocladium)	-	-	-	
	Ascospores	6	100	2.2	
<b>Client Sample ID</b>	Aspergillus/Penicillium	-	-	-	
32621030-11	Basidiospores	187	4130	91.3	
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
<b>Location</b>	Cladosporium	9	200	4.4	
Outside Control - A-11	Curvularia	-	-	-	
	Epicoccum	-	-	-	
<b>Sample Volume (L)</b>	Fusarium	1	20	0.4	
	Ganoderma	1	20	0.4	
150	Myxomycetes++	2	40	0.9	
	Pithomyces++	-	-	-	
<b>Sample Type</b>	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
<b>Background</b>	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
<b>Comments</b>	Zygomycetes	-	-	-	
	Bispora	-	-	-	
	Chromelosporium++	-	-	-	
	Pestalotia/Pestalotiopsis	1*	7*	0.2	
	Spegazzinia	1*	7*	0.2	
	Torula-like	-	-	-	
	<b>Total Fungi</b>	<b>208</b>	<b>4524</b>	<b>100</b>	
	Hyphal Fragment	3	70	-	
	Insect Fragment	-	-	-	
	Pollen	1*	7*	-	

Analytical Sensitivity 600x: 22 counts/cubic meter      Skin Fragments: 1      1 to 4 (low to high)  
Analytical Sensitivity 300x \*: 7\* counts/cubic meter      Fibrous Particulate: 1      1 to 4 (low to high)  
Background: 1      1 to 4 (low to high); 5 (overloaded)

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