



October 26, 2020

Client Name and Address:

MAC Services, LLC
21 Mill Pond Drive
Rochester, MA 02770

Re: Microbial Analytical Results from: Middle School; 1141 Brayton Ave; Somerset, MA

H2O Laboratory Number:03624

Dear Joseph Cooney,

We at H2O EnviroComp would like to thank you for your recent business. Samples were received on 10/23/2020 from a job located at Middle School; 1141 Brayton Ave; Somerset, MA. The final report is enclosed for the following samples: 1-33.

Please note that environmental conditions should be taken into account when interpreting the associated data and sampling at any other time period may produce differing results. H2O EnviroComp follows prescribed procedures for the analysis of air cassettes and direct samples to identify and quantify particulate and microbiological contamination.

These results only pertain to this job and should not be used in the interpretation of any other job. This report may be reproduced only in its entirety.

If you have any questions please do not hesitate to call me at the number below.

Regards,

A handwritten signature in black ink, appearing to read 'Steven Grevelis', is written over a light blue horizontal line.

Steven Grevelis
Laboratory Director

Enclosures:

- Analytical results
- Chain of Custody
- Fungal glossary



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-01 **Sample Medium:** Allergenco-D
Client Sample ID: 4047549 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 59

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	3	126
Basidiospores, Non-specified	24	1011	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	6	253	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 33
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 1389

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

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 Analyzed Date: 10/24/2020



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225

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-02 **Sample Medium:** Allergenco-D
Client Sample ID: 4047547 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 57

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	17	716	Rusts	ND	ND
Aspergillus/Penicillium-Like	10	421	Spegazzinia	ND	ND
Cladosporium	1	42	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	29
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	1221

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

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Mold Identification by Samples

Sample Number: 03624-03 **Sample Medium:** Allergenco-D
Client Sample ID: 4047556 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 55

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	18	758	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	6	253	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	24
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	1011

Reporting Notes: N/A = Not Applicable
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Mold Identification by Samples

Sample Number: 03624-04 **Sample Medium:** Allergenco-D
Client Sample ID: 4047554 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 53

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	3	126	Smuts	ND	ND
Basidiospores, Non-specified	20	842	Rusts	ND	ND
Aspergillus/Penicillium-Like	6	253	Spegazzinia	ND	ND
Cladosporium	5	211	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	1	42	Un-ID Spore	ND	ND
Alternaria	1	42	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	36	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	
Total Fungal Count (Spore/Cubic Meter):	1516	

Reporting Notes: N/A = Not Applicable
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Mold Identification by Samples

Sample Number: 03624-05 **Sample Medium:** Allergenco-D
Client Sample ID: 4047555 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 51

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	14	589	Rusts	ND	ND
Aspergillus/Penicillium-Like	17	716	Spegazzinia	ND	ND
Cladosporium	5	211	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	1	42	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	38
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	1600

Reporting Notes: N/A = Not Applicable
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Mold Identification by Samples

Sample Number: 03624-06 **Sample Medium:** Allergenco-D
Client Sample ID: 4047560 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 49

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	26	1095	Rusts	ND	ND
Aspergillus/Penicillium-Like	8	337	Spegazzinia	ND	ND
Cladosporium	14	589	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	48	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	
Total Fungal Count (Spore/Cubic Meter):	2021	

Reporting Notes: N/A = Not Applicable
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Mold Identification by Samples

Sample Number: 03624-07 **Sample Medium:** Allergenco-D
Client Sample ID: 4047552 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 48

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	33	1389	Rusts	ND	ND
Aspergillus/Penicillium-Like	6	253	Spegazzinia	ND	ND
Cladosporium	4	168	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 44
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 1853

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

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Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-08 **Sample Medium:** Allergenco-D
Client Sample ID: 4047553 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 46

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	27	1137	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	11	463	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 38
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 1600

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/24/2020



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Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020- **Date Analyzed:** 10/24/2020
 225
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-09 **Sample Medium:** Allergenco-D
Client Sample ID: 4047561 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 44

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	39	1642	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	13	547	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 54
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 2274

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

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Mold Identification by Samples

Sample Number: 03624-10 **Sample Medium:** Allergenco-D
Client Sample ID: 4047557 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 62

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	1	42
Basidiospores, Non-specified	53	2232	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	21	884	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 76
Analytical Sensitivity (Spore/Cubic Meter): 42
Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 3200

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

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Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-11 **Sample Medium:** Allergenco-D
Client Sample ID: 4047563 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 60

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	4	168	Smuts	4	168
Basidiospores, Non-specified	123	5179	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	21	884	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	1	42	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 154
Analytical Sensitivity (Spore/Cubic Meter): 42
Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 6484

Reporting Notes: N/A = Not Applicable
ND = None Detected
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Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020
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Mold Identification by Samples

Sample Number: 03624-12 **Sample Medium:** Allergenco-D
Client Sample ID: 4047558 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Gym

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	2	84
Basidiospores, Non-specified	55	2316	Rusts	ND	ND
Aspergillus/Penicillium-Like	3	126	Spegazzinia	ND	ND
Cladosporium	27	1137	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	1	42	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 90
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 3789

Reporting Notes: N/A = Not Applicable
 ND = None Detected
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Mold Identification by Samples

Sample Number: 03624-13 **Sample Medium:** Allergenco-D
Client Sample ID: 4047562 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Main Office

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	84	Smuts	ND	ND
Basidiospores, Non-specified	60	2526	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	33	1389	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	95	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	
Total Fungal Count (Spore/Cubic Meter):	4000	

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/24/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-14 **Sample Medium:** Allergenco-D
Client Sample ID: 4047564 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 7

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	115	4842	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	143	6021	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	2	84	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 260
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 10947

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/24/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-15 **Sample Medium:** Allergenco-D
Client Sample ID: 4047559 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 5

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	84	Smuts	5	211
Basidiospores, Non-specified	73	3074	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	46	1937	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 126
Analytical Sensitivity (Spore/Cubic Meter): 42
Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 5305

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/24/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-16 **Sample Medium:** Allergenco-D
Client Sample ID: 4047566 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 3

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	6	253	Smuts	ND	ND
Basidiospores, Non-specified	78	3284	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	37	1558	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	1	42
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	124
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	5221

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset, MA

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-17 **Sample Medium:** Allergenco-D
Client Sample ID: 4047741 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 1

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	84	Smuts	1	42
Basidiospores, Non-specified	78	3284	Rusts	ND	ND
Aspergillus/Penicillium-Like	27	1137	Spegazzinia	ND	ND
Cladosporium	36	1516	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 145
Analytical Sensitivity (Spore/Cubic Meter): 42
Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 6105

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141
Brayton Ave; Somerset,
MA **Date Received:** 10/23/2020

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-
225 **Date Analyzed:** 10/26/2020

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-18 **Sample Medium:** Allergenco-D
Client Sample ID: 4047746 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Small Comp Lab Room

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	5	211	Smuts	6	253
Basidiospores, Non-specified	66	2779	Rusts	ND	ND
Aspergillus/Penicillium-Like	2	84	Spegazzinia	ND	ND
Cladosporium	46	1937	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	125
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	5263

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020- **Date Analyzed:** 10/26/2020
 225
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-19 **Sample Medium:** Allergenco-D
Client Sample ID: 4047565 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Auditorium

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	84	Smuts	ND	ND
Basidiospores, Non-specified	37	1558	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	7	295	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	46	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	

Total Fungal Count (Spore/Cubic Meter): 1937

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset, MA

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-20 **Sample Medium:** Allergenco-D
Client Sample ID: 4047756 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Cafeteria

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	4	168	Smuts	ND	ND
Basidiospores, Non-specified	21	884	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	20	842	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 46
Analytical Sensitivity (Spore/Cubic Meter): 42
Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 1937

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset, MA

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-21 **Sample Medium:** Allergenco-D
Client Sample ID: 4047757 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 40

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	23	968	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	14	589	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 39
Analytical Sensitivity (Spore/Cubic Meter): 42
Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 1642

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



H2O EnviroComp
Indoor Air Quality Report
Air Sample Report

24 School Street
P.O. Box 444
West Dennis, MA 02670
Phone 508.737.4289

Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset, MA

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020- **Date Analyzed:** 10/26/2020
225

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-22 **Sample Medium:** Allergenco-D
Client Sample ID: 4047751 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Guidance Main Office Area

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	27	1137	Rusts	1	42
Aspergillus/Penicillium-Like *	19	800	Spegazzinia	ND	ND
Cladosporium	10	421	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	57
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	2400

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset,
MA

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-23 **Sample Medium:** Allergenco-D
Client Sample ID: 4047753 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 10

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	21	884	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	8	337	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	1	42	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	31
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	1305

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Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-24 **Sample Medium:** Allergenco-D
Client Sample ID: 4047761 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 12

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	82	3453	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	3	126	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	1	42	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 86
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 3621

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset,
MA

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020- **Date Analyzed:** 10/26/2020
225

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-25 **Sample Medium:** Allergenco-D
Client Sample ID: 4047758 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 14

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	4	168	Smuts	1	42
Basidiospores, Non-specified	91	3832	Rusts	ND	ND
Aspergillus/Penicillium-Like	6	253	Spegazzinia	ND	ND
Cladosporium	12	505	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 115
Analytical Sensitivity (Spore/Cubic Meter): 42
Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 4842

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 Brayton Ave; Somerset, MA **Date Received:** 10/23/2020

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-26 **Sample Medium:** Allergenco-D
Client Sample ID: 4047752 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: 7th Grade Teachers Lounge

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	9	379	Smuts	4	168
Basidiospores, Non-specified	97	4084	Rusts	ND	ND
Aspergillus/Penicillium-Like	3	126	Spegazzinia	ND	ND
Cladosporium	16	674	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count: 130	
Analytical Sensitivity (Spore/Cubic Meter): 42	
Number of Traverses: 12	
Total Fungal Count (Spore/Cubic Meter):	5474

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/24/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/24/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-27 **Sample Medium:** Allergenco-D
Client Sample ID: 4047748 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 16

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	7	295	Smuts	ND	ND
Basidiospores, Non-specified	162	6821	Rusts	ND	ND
Aspergillus/Penicillium-Like	23	968	Spegazzinia	ND	ND
Cladosporium	30	1263	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	222	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	
Total Fungal Count (Spore/Cubic Meter):	9347	

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/24/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-28 **Sample Medium:** Allergenco-D
Client Sample ID: 4047747 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Media Center

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	3	126	Smuts	ND	ND
Basidiospores, Non-specified	42	1768	Rusts	ND	ND
Aspergillus/Penicillium-Like	6	253	Spegazzinia	ND	ND
Cladosporium	4	168	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 55
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 2316

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-29 **Sample Medium:** Allergenco-D
Client Sample ID: 4047762 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 31

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	84	Smuts	ND	ND
Basidiospores, Non-specified	29	1221	Rusts	ND	ND
Aspergillus/Penicillium-Like	8	337	Spegazzinia	ND	ND
Cladosporium	7	295	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	46	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	

Total Fungal Count (Spore/Cubic Meter): 1937

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020- **Date Analyzed:** 10/26/2020
 225
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-30 **Sample Medium:** Allergenco-D
Client Sample ID: 4047764 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 33

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	126	5305	Rusts	ND	ND
Aspergillus/Penicillium-Like	3	126	Spegazzinia	ND	ND
Cladosporium	14	589	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 144
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 6063

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020

Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
Brayton Ave; Somerset,
MA

Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020- **Date Analyzed:** 10/26/2020
225

City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020

Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-31 **Sample Medium:** Allergenco-D
Client Sample ID: 4047742 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 35

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	22	926	Smuts	1	42
Basidiospores, Non-specified	158	6653	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	41	1726	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	222
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
Total Fungal Count (Spore/Cubic Meter):	9347

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 **Date Received:** 10/23/2020
 Brayton Ave; Somerset, MA
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/26/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-32 **Sample Medium:** Allergenco-D
Client Sample ID: 4047745 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room 37

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	11	463	Smuts	1	42
Basidiospores, Non-specified	102	4295	Rusts	ND	ND
Aspergillus/Penicillium-Like	5	211	Spegazzinia	ND	ND
Cladosporium	20	842	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 140
 Analytical Sensitivity (Spore/Cubic Meter): 42
 Number of Traverses: 12
Total Fungal Count (Spore/Cubic Meter): 5895

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/26/2020



Company: MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 10/22/2020
Contact: Joseph Cooney **Project Name:** Middle School; 1141 Brayton Ave; Somerset, MA **Date Received:** 10/23/2020
Address: 21 Mill Pond Drive **Project Notes:** Project Number: 2020-225 **Date Analyzed:** 10/23/2020
City, ST, Zip: Rochester, MA 02770 **Lab No:** 03624 **Date Reported:** 10/26/2020
Phone: 508-789-0983 **Report Status:** Version 1

Mold Identification by Samples

Sample Number: 03624-33 **Sample Medium:** Allergenco-D
Client Sample ID: 4047749 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Outdoors @ Side Parking Lot

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	49	2063	Smuts	47	1979
Basidiospores, Non-specified	299	12589	Rusts	ND	ND
Aspergillus/Penicillium-Like	5	211	Spegazzinia	ND	ND
Cladosporium	357	15032	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	3	126	Coprinus	ND	ND
Pithomyces	13	547	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	12	505	Insect Frags	ND	ND
Epicoccum	ND	ND			
Memnoniella	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	785	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	
Total Fungal Count (Spore/Cubic Meter):	33053	

Reporting Notes: N/A = Not Applicable
 ND = None Detected
 * = Type detected observed in clumps

Analyzed by: Steven Grevelis
 Analyzed Date: 10/23/2020



H2O EnviroComp
 24 School Street
 P.O. Box 444
 West Dennis, MA 02670

Microbial Chain of Custody
 Version 1.0
 4/9/2012

Temp
 30

Client: MAC Services, LLC Phone: 508-789-0983 Client Address: 21 Mill Pond Drive Rochester, MA
 Project Name: Somerset Middle School Project Number: 2020-225
 Proj. Address: 1141 Brayton Avenue Town: Somerset State: MA Zip Code: _____

Sampled By: Joseph Cooney Email Address(es) to Send Report to: _____ H2O Lab ID: **03624**
 Date: 10-22-20 Project Manager: Joseph Cooney Email 1: jcooney@macmoldandmore.com
 Turn Around Time: Rush 24 Hour 48 Hour 3 Day 5 Day Email 2: _____

SAMPLE ID	LOCATION	Sample Type (Air, Tape Lift, Bulk)	Volume Data			Sample Media (Air-O-Cell, Allergenco-D, etc)
			Rate (l/min)	Time (min)	Volume	
4047549	Room 59	Air	15	5	75	Allergenco-D
4047547	Room 57	Air	15	5	75	Allergenco-D
4047556	Room 55	Air	15	5	75	Allergenco-D
4047554	Room 53	Air	15	5	75	Allergenco-D
4047555	Room 51	Air	15	5	75	Allergenco-D
4047560	Room 49	Air	15	5	75	Allergenco-D
4047552	Room 48	Air	15	5	75	Allergenco-D
4047553	Room 46	Air	15	5	75	Allergenco-D
4047561	Room 44	Air	15	5	75	Allergenco-D
4047557	Room 62	Air	15	5	75	Allergenco-D

RAH
 58
 59
 59

Relinquished by: Joseph Cooney

Date/Time: _____

Page 1 of 4

Received by: Adam Guli

Date/Time: 10/23/2020 Pickup



H2O EnviroComp
 24 School Street
 P.O. Box 444
 West Dennis, MA 02670

Microbial Chain of Custody
 Version 1.0
 4/9/2012

Client: MAC Services, LLC Phone: 508-789-0983 Client Address: 21 Mill Pond Drive Rochester, MA
 Project Name: Somerset Middle School Project Number: 2020-225
 Proj. Address: 1141 Brayton Avenue Town: Somerset State: MA Zip Code: _____

Sampled By: Joseph Cooney Email Address(es) to Send Report to: _____ H2O Lab ID: **03624**
 Date: 10-22-20 Project Manager: Joseph Cooney Email 1: jcooney@macmoldandmore.com
 Turn Around Time: Rush 24 Hour 48 Hour 3 Day 5 Day Email 2: _____

T=
73°

SAMPLE ID	LOCATION	Sample Type (Air, Tape Lift, Bulk)	Volume Data			Sample Media (Air-O- Cell, Allergenco-D, etc)
			Rate (l/min)	Time (min)	Volume	
4047563	Room 60	Air	15	5	75	Allergenco-D
4047588	Gym Girls Teacher office	Air	15	5	75	Allergenco-D
4047562	Room Main office	Air	15	5	75	Allergenco-D
4047564	Room 7	Air	15	5	75	Allergenco-D
4047559	Room 5	Air	15	5	75	Allergenco-D
4047566	Room 3	Air	15	5	75	Allergenco-D
4047741	Room 1	Air	15	5	75	Allergenco-D
4047746	small Comp Lab Room	Air	15	5	75	Allergenco-D
4047565	Auditorium	Air	15	5	75	Allergenco-D
4047256	Cafeteria	Air	15	5	75	Allergenco-D

RH%
66
62
63

Relinquished by: Joseph Cooney
 Received by: A. Tom Huli

Date/Time: _____
 Date/Time: 10/23/2020



Client: MAC Services, LLC Phone: 508-789-0983 Client Address: 21 Mill Pond Drive Rochester, MA
 Project Name: Somerset Middle School Project Number: 2020-225
 Proj. Address: 1141 Brayton Avenue Town: Somerset State: MA Zip Code: _____

Sampled By: Joseph Cooney Email Address(es) to Send Report to: _____ H2O Lab ID: **03624**
 Date: 10-22-20 Project Manager: Joseph Cooney Email 1: jcooney@macmoldandmore.com
 Turn Around Time: Rush 24 Hour 48 Hour 3 Day 5 Day Email 2: _____

SAMPLE ID	LOCATION	Sample Type (Air, Tape Lift, Bulk)	Volume Data			Sample Media (Air-O-Cell, Allergenco-D, etc)
			Rate (l/min)	Time (min)	Volume	
4047757	Room 40	Air	15	5	75	Allergenco-D
4047751	Guidance main office area	Air	15	5	75	Allergenco-D
4047753	Room 10	Air	15	5	75	Allergenco-D
4047761	Room 12	Air	15	5	75	Allergenco-D
4047758	Room 14	Air	15	5	75	Allergenco-D
4047752	7th Grade Teachers Lounge	Air	15	5	75	Allergenco-D
4047748	Room 16	Air	15	5	75	Allergenco-D
4047747	Media Center	Air	15	5	75	Allergenco-D
4047762	Room 31	Air	15	5	75	Allergenco-D
4047764	Room 33	Air	15	5	75	Allergenco-D

72°
RH%
68%
64
62
67

Relinquished by: Joseph Cooney
 Received by: Adam Huli

Date/Time: _____
 Date/Time: 10/23/2020



H2O EnviroComp
 24 School Street
 P.O. Box 444
 West Dennis, MA 02670

Microbial Chain of Custody
 Version 1.0
 4/9/2012

Client: MAC Services, LLC Phone: 508-789-0983 Client Address: 21 Mill Pond Drive Rochester, MA
 Project Name: Somerset Middle School Project Number: 2020-225
 Proj. Address: 1141 Brayton Avenue Town: Somerset State: MA Zip Code: _____

Sampled By: Joseph Cooney Email Address(es) to Send Report to: _____ H2O Lab ID: **03624**
 Date: 10-22-20 Project Manager: Joseph Cooney Email 1: jcooney@macmoldandmore.com
 Turn Around Time: Rush 24 Hour 48 Hour 3 Day 5 Day Email 2: _____

SAMPLE ID	LOCATION	Sample Type (Air, Tape, Lift, Bulk)	Volume Data			Sample Media (Air-O-Cell, Allergenco-D, etc)
			Rate (l/min)	Time (min)	Volume	
4047742	Room 35	Air	15	5	75	Allergenco-D
4047745	Room 37	Air	15	5	75	Allergenco-D
4047749	Out doors @ side parking lot	Air	15	5	75	Allergenco-D
		Air	15	5	75	Allergenco-D
		Air	15	5	75	Allergenco-D
		Air	15	5	75	Allergenco-D
		Air	15	5	75	Allergenco-D
		Air	15	5	75	Allergenco-D
		Air	15	5	75	Allergenco-D
		Air	15	5	75	Allergenco-D

PH
67%

Relinquished by: Joseph Cooney
 Received by: *Adam Gubi*

Date/Time: _____
 Date/Time: 10/23/2020 Pickup

Page 4 of 4



H2O EnviroComp Fungal Glossary

Note: The following list is not inclusive of all molds and fungi.

Absidia: Found outdoors in soil and decaying vegetation. Found indoors in stored grains and other foods. Absidia is recognized as an allergen. In immunocompromised patients pulmonary invasions, the meninges (brain or spinal cord), and kidney infections can result from exposure.

Acromonium: Found outdoors in decaying or dead plant materials. Found indoors in food and wet, cellulose based building materials. Grows well indoors when there is a high water content (>0.90 Aw). Type I (hay fever, asthma) and Type III (hypersensitivity pneumonitis) allergen. Known to cause infections in immunodeficient patients and persons with wound injuries. There are 100 known species.

Alternaria: Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods, soil and air outdoors. Indoors it is found near condensation (window frames, showers), house dust (in carpets, and air). It also colonizes building supplies, computer disks, cosmetics, leather, optical instruments, paper, sewage, stone monuments, textiles, wood pulp, and jet fuel. Type I allergies (hay fever, asthma) and Type III (hypersensitivity pneumonitis). Alternaria spores are one of the most common and potent indoor and outdoor airborne allergens. Additionally, Alternaria sensitization has been determined to be one of the most important factors in the onset of childhood asthma. Synergy with Cladosporium or Ulocladium may increase the severity of symptoms.

Arthrinium: Found outdoors in decaying plant material and soil. Found indoors on cellulose containing materials. *Arthrinium sphaerospermum* is recognized as an allergen.

Ascospores: Ascospores are found everywhere in nature. Ascospores are the result of sexual reproduction and produced in a saclike structure called an ascus. All ascospores belong to members of the Phylum Ascomycota, which encompasses a plethora of genera worldwide.

Aspergillus/Penicillium: These species are common contaminants on various substances. This organism causes food spoilage and is an indicated organism for dampness indoors. Some of these species are known to produce mycotoxins. If health effects are noticed by occupants or workers, in an environment that evidences an amplification of Penicillium, identification of species is helpful. These especially opportunistic pathogens may cause respiratory infections. Some varieties produce mycotoxins and aflatoxins.

Basidiospores: Found outdoors in gardens forests and woodlands. Plant pathogen. Indoors it is the agent of “dry rot” and other fungi causing white and brown wood rot. Grow and destroy the structural wood of buildings. *Poria incrassata* causes a particularly destructive dry rot in buildings. A probably common allergen. Type I allergies (hay fever, asthma).

Bipolaris: Found outdoors in plant debris and soil. Found indoors on houseplants and indoor building materials. Type I allergies (hay fever, asthma). Most commonly reported cause of allergic and chronic invasive sinusitis.

Botrytis: Plant pathogen responsible for causing gray mold (*B. cinerea*) on grapes, strawberries, raspberries, blackberries, low bush blueberries, lettuce, cabbage and onion. Indoors it is found on houseplants fruits and vegetables. Type I (hay fever, asthma) and type III (hypersensitivity) allergies.



H2O EnviroComp Fungal Glossary

Candida: Found in leaves, flowers, soil, water and is an inhabitant of the skin, mouth and vagina. It is unknown what suitable substrates are in the indoor environment. Has been reported as an allergen. Occurs in patients taking drugs such as oral contraceptives and antibiotics.

Cercospora: Found outdoors on plants. It is a plant parasite causing leaf spot. It is unknown what substrates it prefers indoors. Thrives in moderate to high humidity its allergenic potential is unknown.

Chaetomium: Found outdoors in soil, seeds, dung, woody and straw materials. Indoors found on damp sheet rock paper. Type I allergies (hay fever, asthma).

Coprinus: Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

Cladosporium: Found outdoors in soil of many different types. Indoors it is found on many substrates including textiles, wood, and moist windowsills. Cladosporium grows at 0degrees C, and so is associated with refrigerated foods. It is a common and important allergen. Type I allergies (hay fever, asthma).

Cladophialophora (form of Cladosporium): Phialophora: Found outdoors in wood roots, stems and leaves of plants and grasses, and soil. It is a water loving fungus. Allergenicity has not been studied.

Coprinus: Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

Curvularia: found outdoors in plant saprobe and pathogen to cereal plants and soil. Found indoors in paper and wood products. Type I allergies (asthma and hay fever) A relatively common cause of allergic fungal sinusitis.

Dactylaria: Found outdoors in decaying soil and leaves. Dactylaria species comprise a very small proportion of the fungal biota. There have been several reports of opportunistic infections caused by these genera but a true pathogenic role has not been firmly established. No information is available regarding upper respiratory health effects, or toxicity. Allergenicity has not been studied.

Epicoccum: Found outdoors in plant debris and soil. Found indoors in paper and textiles. Type I allergies (asthma and hay fever).

Fusarium: Found outdoors in soil. Occasionally found on a variety of substrates. Fusarium requires very wet conditions. Aw=0.86-0.91 (minimum for various species). . Type I allergies (asthma and hay fever).

Ganoderma: Found outdoors on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot. Ganoderma species are known to cause allergies in people on a worldwide scale.

Memmoniella: Found outdoors in plant litter soil and many types of plants and trees. Found indoors on a variety of substrates (cellulolytic). Allergens are unknown. Very closely related to Stachybotrys.

Myxomycetes: Found outdoors in decaying logs and stumps, particularly in forested areas. Only found occasionally indoors. Type I allergies (hay fever, asthma)



H2O EnviroComp Fungal Glossary

Nigrospora: Found outdoors in decaying plants and soil. Rarely found indoors. Type I allergies (asthma and hay fever).

Pithomyces: Found outdoors in bark, leaf litter and soils. Indoors it is found in paper and requires high levels of moisture for spore germination. Its allergenic potential is unknown.

Rust: Rusts are parasitic to many types of plants. Rust fungi require a living plant host for growth. Type I allergens (hay fever, asthma). There are 5000 known species of rusts belonging to at least 150 different genera. Rusts are the cause of great economic losses on many cultivated plants.

Scopulariopsis (Hyphomycetes) Teleomorph: *Microascus* (Ascomycetes) Mainly soil-borne, but also frequently isolated from wood, grain, fruit, paper, and food such as meat and dairy products. Also isolated from indoor environments. ***Most species can liberate arsenic gaseous compounds that can lead to arsenic poisoning. Has recently been associated with invasive human infections.***

Spegazzinia: Found outdoors in plants and soil. It is unknown what substrates it is found on indoors. Allergenic properties are unknown.

Stachybotrys: Stachybotrys grows on wet materials that contain cellulose and low nitrogen content. Usually but not limited to building materials such as wallboard paper (unfinished drywall) that has a high water activity over a long period of time. It produces several types of toxic metabolites and mycotoxins that can irritate skin and mucous membranes. One of the mycotoxins it produces called satratoxin is also toxic when inhaled. ***Extreme care should be taken when this organism is amplified indoors.*** Individuals with chronic exposure to the toxin produced by this fungus reported cold and flu symptoms, sore throat, diarrhea, headaches, fatigue, dermatitis, intermittent local hair loss, and generalized malaise. The toxins produced by this fungus will suppress the immune system affecting the lymphoid tissue and the bone marrow.

Stemphylium: Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth is rare. Known allergen. Shares allergens with Alternaria. Type I allergies (hay fever, asthma).

Trichoderma: Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth on paper, textiles, and wet wood. Known allergen. Type I allergies (hay fever, asthma), Type III allergies (hypersensitivity), and has occasionally been associated with disease in immunocompromised individuals.

Torula: Found outdoors in leaves, plant roots, plant litter, soil and wood. Indoors it is found in paper, wicker furniture and wood. Type I allergies (hay fever, asthma).

Ulocladium: Found outdoors in soil, dung, paint, grasses, fibers, wood, decaying plant material, paper and textiles. Indoors it is found in gypsum board, paper, paint, tapestries, jute and other straw materials. Ulocladium has a high water requirement. As an allergen it is major with type I allergies (hay fever, asthma) and it cross reacts with Alternaria, adding to the burden of Alternaria-sensitive patients.

Wallemia: Found outdoors in hay and soil. Found indoors in jams, salted fish, mattresses, textiles and wood in crawl spaces. It is a Type I (hay fever and asthma) allergen.

Zygomycetes: Found outdoors in decaying plant and animal matter. Found indoors in fruits and vegetables. It is a Type I (hay fever, asthma) and Type III (hypersensitivity) allergen. Many zygomycetes are extremely fast growing and can inhibit other fungi when competing for food and space.