

August 31, 2020

Client Name and Address: MAC Services, LLC 21 Mill Pond Drive Rochester, MA 02770

Re: Microbial Analytical Results from: North Elementary School; 580 Whetstone Hill Rd; Somerset, MA

H2O Laboratory Number:03536

Dear Joseph Cooney,

We at H2O EnviroComp would like to thank you for your recent business. Samples were received on 8/21/2020 from a job located at North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA. The final report is enclosed for the following samples: 1-16.

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,

Steven Grevelis Laboratory Director

Enclosures:

- Analytical results
- Chain of Custody
- Fungal glossary

EnviroComp)	Indoor Air	nviroComp Quality Report nple 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:	8/20/2020					
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020					
Address:	21 Mill Pond Drive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/30/2020					
City, ST, Zip:	Rochester, MA 0277	0 Lab No:	03536	Date Reported:	8/31/2020					
Phone:	508-789-0983			Report Status:	Version 1					
	Mold Identification by Samples									
Sample N Client Sample		36-01 141	Sample Medium: Sampling Rate:	•	o-D 5 Minutes					

Sample Number.	00000-01	Sample Medium.	A	liergenco-D	
Client Sample ID:	4112141	Sampling Rate:	15L/Min	for 5 Minutes	3
Magnification:	600 X	Total Liters:	75		
		Location:	Outdoors	@ West Entran	се

			Count/			Count/
Туре:		Raw Count	Cubic Meter	Туре:	Raw Count	Cubic Meter
Ascospores, Non-specif	ied	26	1095	Smuts	2	84
Basidiospores, Non-spe		259	10905	Rusts	 ND	ND
Aspergillus/Penicillium-L		7	295	Spegazzinia	ND	ND
Cladosporium		29	1221	Stachybotrys	ND	ND
Chaetomium		ND	ND	Ulocladium	ND	ND
Ganoderma		3	126	Coprinus	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		1	42	Insect Frags	ND	ND
Epicoccum		ND	ND			
Memnoniella		ND	ND			
				Sample Data Com	iments:	
Skin Fragment Prevaler	nce; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
	Total Funga	al Raw Count:	328			
Analytical Sensi		,	42			
	Numbe	er of Traverses:	12			
Total Fungal Co	unt (Spore/Cu	ubic Meter):	13811			
Reporting Notes:		Not Applicable None Detected				
	* _ Tv	na datactad ahsai	wod in clum			

* = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/30/2020

EnviroComp)	Indoor Air	EnviroComp ^r Quality Report mple 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:	8/20/2020	
Contact:	Joseph Cooney	Project Name:	North Elelmentary School 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020	
Address:	21 Mill Pond Dri	ive Project Notes:		Date Analyzed:	8/30/2020	
City, ST, Zip:	Rochester, MA	02770 Lab No:	03536	Date Reported:	8/31/2020	
Phone:	508-789-0983			Report Status:	Version 1	
		Mold Identific	ation by Samples			
Sample N Client Sample Magnification	e ID: 4	03536-02 4112146 600 X	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes	

5F Classroom Area

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	5	211	Smuts	ND	ND
Basidiospores, Non-specified	5	211	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	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	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND		•	
Oidium	ND	ND			
			Sample Data Com	ments:	
Skin Fragment Prevalence; 1 (Low) to	4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	15			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	632			
	Not Applicable Ione Detected				
т	vone Delected				

* = Type detected observed in clumps

EnviroComp)	Indoor Air	nviroComp Quality Report nple Report	24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289		
Company:	MAC Services, LL	C Inspector:	Joseph Cooney	Date Sampled:	8/20/2020	
Contact:	Joseph Cooney	Project Name:	North Elelmentary School 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020	
Address:	21 Mill Pond Drive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/30/2020	
City, ST, Zip:	Rochester, MA 02	770 Lab No:	03536	Date Reported:	8/31/2020	
Phone:	508-789-0983			Report Status:	Version 1	
		Mold Identific	ation by Samples			
Sample N Client Sample Magnification	e ID: 41	3536-03 12140 0 x	Sample Medium Sampling Rate Total Liters:	15L/Min for	o-D 5 Minutes	

5A Classroom Area

Sample Data:

•			Count/			Count/
			Cubic		Raw	Cubic
Туре:		w Count	Meter	Туре:	Count	Meter
Ascospores, Non-specifi		1	42	Smuts	1	42
Basidiospores, Non-spec	cified	4	168	Rusts	ND	ND
Aspergillus/Penicillium-L	ike	ND	ND	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 Com	ments:	
Skin Fragment Prevalen	ce; 1 (Low) to 4 (Hig	gh):	1			
Background Density; 1 (I	_ow) to 5 (Overload	led):	1]		
	Total Fungal Raw	Count:	8			
Analytical Sensit	ivity (Spore/Cubic N	/leter):	42			
	Number of T	raverses:	12			
Total Fungal Cou	Int (Spore/Cubic N	leter):	337			
Reporting Notes:	N/A = Not Ap	plicable				
	ND = None D	•				
	+					

 \star = Type detected observed in clumps

EnviroComp)	Indoor Air	nviroComp Quality Report nple Report	24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289		
Company:	MAC Services, LL	_C Inspector:	Joseph Cooney	Date Sampled:	8/20/2020	
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020	
Address:	21 Mill Pond Drive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/30/2020	
City, ST, Zip:	Rochester, MA 02	2770 Lab No:	03536	Date Reported:	8/31/2020	
Phone:	508-789-0983			Report Status:	Version 1	
		Mold Identific	ation by Samples			
Sample N Client Sample Magnification	e ID: 41	3536-04 12145 10 X	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes	

Girls Locker Room

Sample Data:

•			Count/		_	Count/
			Cubic		Raw	Cubic
Туре:		Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specifi	ed	1	42	Smuts	ND	ND
Basidiospores, Non-spec	cified	3	126	Rusts	ND	ND
Aspergillus/Penicillium-L	ike	1	42	Spegazzinia	ND	ND
Cladosporium		1	42	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 Com	ments:	
Skin Fragment Prevalend	ce; 1 (Low) to 4	(High):	1			
Background Density; 1 (I	_ow) to 5 (Overlo	baded):	1			
	Total Fungal R	Raw Count:	6			
Analytical Sensit	ivity (Spore/Cub	ic Meter):	42			
-	Number o	of Traverses:	12			
Total Fungal Cou	int (Spore/Cubi	c Meter):	253			
Reporting Notes:	N/A = Not	Applicable				
		e Detected				
	* -					

* = Type detected observed in clumps

H2O EnviroComp Indoor Air Quality Report Air Sample Report					W	est Denr	School Street P.O. Box 444 his, MA 02670 508.737.4289
Company:	MAC Services, LLC	Inspector:	Joseph Co	oney	Date Sa	mpled:	8/20/2020
Contact:	Joseph Cooney	Project Name:		nentary School; stone Hill Rd; MA	Date Re	ceived:	8/21/2020
Address:	21 Mill Pond Drive	Project Notes:		mber: 2020-	Date An	alyzed:	8/30/2020
City, ST, Zip:	Rochester, MA 02770	Lab No:	03536		Date Re	ported:	8/31/2020
Phone:	508-789-0983				Report	Status:	Version 1
		Mold Identifica	ation by Sa	mples			
Sample N Client Sample Magnification Sample Data:	e ID: 411213 1: 600 X	36-05 35		mple Medium: Sampling Rate: Total Liters: Location:	15L/Min Boys L	75 .ocker Ro	co-D 5 Minutes oom under tted Ceiling
			Count/				Count/
			Cubic			Raw	Cubic
	Туре:	Raw Count	Meter	Туре:		Count	Meter
Ascospores, N		ND	ND	Smuts		ND	ND
	, Non-specified	2	84	Rusts		ND	ND
Aspergillus/Pe	nicillium-Like	3	126	Spegazzinia		ND	ND
Cladosporium		1	42	Stachybotrys		ND	ND
Chaetomium		ND	ND	Ulocladium		ND	ND
Ganoderma		ND ND	ND ND	Nigrospora Un-ID Spore		ND ND	ND ND
Pithomyces Alternaria		ND	ND	Pollen		ND	ND
Cercospora-lik	Γ <u>Α</u>	ND	ND	Hyphal Frags		ND	ND
Curvularia		ND	ND	Insect Frags		ND	ND
Epicoccum		ND	ND			1	
Oidium		ND	ND	1			
				Sample Data	Commen	ts:	
	t Prevalence; 1 (Low) to		1				
Background D	ensity; 1 (Low) to 5 (Ov		1	-			
A		al Raw Count:	6				
Analyt	ical Sensitivity (Spore/C	er of Traverses:	42				
Total Fi	ungal Count (Spore/Ci		12 253				
Reporting Note	es: N/A = ND = N	Not Applicable None Detected					
	" = Ty	pe detected obse	rved in clum	ps			
Analyzed by:	Steven Grevelis						
Analyzed Date	2.0/30/2020					Page 5 o	סו וכ

EnviroComp)	Indoor Air	nviroComp Quality Report nple Report	24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289		
Company:	MAC Services, LL	.C Inspector:	Joseph Cooney	Date Sampled:	8/20/2020	
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020	
Address:	21 Mill Pond Drive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/30/2020	
City, ST, Zip:	Rochester, MA 02	770 Lab No:	03536	Date Reported:	8/31/2020	
Phone:	508-789-0983			Report Status:	Version 1	
		Mold Identific	ation by Samples			
Sample N Client Sample Magnification	e ID: 41	3536-06 12150 0 x	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes	

			Count/		David	Count/
Type:	Baw	Count	Cubic Meter	Туре:	Raw Count	Cubic Meter
Ascospores, Non-specif		ND	ND	Smuts	ND	ND
Basidiospores, Non-spe		1	42	Rusts	ND	ND
Aspergillus/Penicillium-I	_ike	ND	ND	Spegazzinia	ND	ND
Cladosporium		ND	ND	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	1		
				Sample Data Comm	ents:	
Skin Fragment Prevaler	nce; 1 (Low) to 4 (High	า):	1			
Background Density; 1	(Low) to 5 (Overloade	d):	1			
	Total Fungal Raw (Count:	1			
Analytical Sensi	itivity (Spore/Cubic Me	eter):	42			
	Number of Tra	averses:	12			
Total Fungal Count (Spore/Cubic Meter):		42				
Reporting Notes:	N/A = Not App ND = None De					

 \star = Type detected observed in clumps

Location: Corridor @ Nurse's Office

EnviroComp)	H2O EnviroComp Indoor Air Quality Report Air Sample Report			School Street P.O. Box 444 his, MA 02670 508.737.4289
Company:	MAC Services, LI	LC Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020
Address:	21 Mill Pond Driv	e Project Notes:	Project Number: 2020- 211	Project Number: 2020- Date Analyzed: 8/	
City, ST, Zip:	Rochester, MA 02	2770 Lab No:	03536	Date Reported:	8/31/2020
Phone:	508-789-0983			Report Status:	Version 1
		Mold Identifica	ation by Samples		
Sample N Client Sample Magnification	e ID: 41	3536-07 112114 20 x	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes

			Count/			Count/
Туре:	Ba	w Count	Cubic Meter	Туре:	Raw Count	Cubic Meter
Ascospores, Non-specifie		ND	ND	Smuts	ND	ND
Basidiospores, Non-spec		ND	ND	Rusts	ND	ND
Aspergillus/Penicillium-Li	ke	ND	ND	Spegazzinia	ND	ND
Cladosporium		ND	ND	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	1		
				Sample Data Comr	nents:	
Skin Fragment Prevalence	e; 1 (Low) to 4 (High	gh):	1			
Background Density; 1 (L	ow) to 5 (Overload	led):	1			
	Total Fungal Raw	/ Count:	ND			
Analytical Sensiti	vity (Spore/Cubic N	Meter):	42			
	Number of T	raverses:	12			
Total Fungal Count (Spore/Cubic Meter):		ND				
Reporting Notes:	N/A = Not Ap	•				
	ND = None E	Detected				

 \star = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/30/2020 Location: Water Fountain/Bathroom

Area at Classroom Area 'B'

EnviroComp)	Indoor Air	EnviroComp ^r Quality Report mple Report	West Denr	School Street P.O. Box 444 his, MA 02670 508.737.4289
Company:	MAC Services,	LLC Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	North Elelmentary School 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020
Address:	21 Mill Pond Dr	rive Project Notes:		Date Analyzed:	8/30/2020
City, ST, Zip:	Rochester, MA	02770 Lab No:	03536	Date Reported:	8/31/2020
Phone:	508-789-0983			Report Status:	Version 1
		Mold Identific	ation by Samples		
Sample N Client Sample Magnification	e ID:	03536-08 4112119 600 X	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specif	ied ND	ND	Smuts	ND	ND
Basidiospores, Non-spe	cified 1	42	Rusts	ND	ND
Aspergillus/Penicillium-L	_ike ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	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 Com	ments:	
Skin Fragment Prevaler	nce; 1 (Low) to 4 (High):	1			
Background Density; 1 ((Low) to 5 (Overloaded):	1			
	Total Fungal Raw Count:	1			
Analytical Sensi	itivity (Spore/Cubic Meter):	42			
	Number of Traverses:	12			
Total Fungal Count (Spore/Cubic Meter):		42			
Reporting Notes:	N/A = Not Applicable				
	ND = None Detected				
	*				

* = Type detected observed in clumps

Location: Middle of Carpeted Library

EnviroComp)	H2O EnviroComp Indoor Air Quality Report Air Sample Report			School Street P.O. Box 444 iis, MA 02670 508.737.4289
Company:	MAC Services, I	LLC Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020
Address:	21 Mill Pond Dri	ve Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/30/2020
City, ST, Zip:	Rochester, MA (02770 Lab No:	03536	Date Reported:	8/31/2020
Phone:	508-789-0983			Report Status:	Version 1
		Mold Identific	ation by Samples		
Sample Number:03536Client Sample ID:4112113Magnification:600 X		-	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes

		Count/			Count/
Type:	Raw Count	Cubic t Meter	Туре:	Raw Count	Cubic Meter
Ascospores, Non-specif		42	Smuts	ND	ND
Basidiospores, Non-spe		84	Rusts	ND	ND
Aspergillus/Penicillium-L	ike ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	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 Com	ments:	
Skin Fragment Prevalen	ce; 1 (Low) to 4 (High):	1	•		
Background Density; 1 (Low) to 5 (Overloaded):	1			
	Total Fungal Raw Count:	3			
Analytical Sensi	tivity (Spore/Cubic Meter):	42			
-	Number of Traverses	: 12			
Total Fungal Cou	Int (Spore/Cubic Meter):	126			
Reporting Notes:	N/A = Not Applicable ND = None Detected				

* = Type detected observed in clumps

Location: Art Rooms Area next to

Sinks

EnviroComp)	H2O EnviroComp Indoor Air Quality Report Air Sample Report			School Street P.O. Box 444 iis, MA 02670 508.737.4289
Company:	MAC Services, I	LLC Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020
Address:	21 Mill Pond Dri	ve Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/30/2020
City, ST, Zip:	Rochester, MA (02770 Lab No:	03536	Date Reported:	8/31/2020
Phone:	508-789-0983			Report Status:	Version 1
		Mold Identific	ation by Samples		
Sample Number:03536-1Client Sample ID:4112112Magnification:600 X			Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes

			Count/		_	Count/
Type:		Raw Count	Cubic Meter		Raw Count	Cubic Meter
Type:	lind	ND	ND	Type: Smuts	ND	ND
Ascospores, Non-specif						
Basidiospores, Non-spe		3	126	Rusts	ND	ND
Aspergillus/Penicillium-I	_ike	3	126	Spegazzinia	ND	ND
Cladosporium		ND	ND	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 Com	ments:	
Skin Fragment Prevaler	nce; 1 (Low) to	4 (High):	1			
Background Density; 1 ((Low) to 5 (Ove	erloaded):	1			
· · · · · · · · · · · · · · · · · · ·	Total Funga	I Raw Count:	6			
Analytical Sensi	itivity (Spore/C	ubic Meter):	42			
2		r of Traverses:	12			
Total Fungal Co	unt (Spore/Cu	bic Meter):	253			
Reporting Notes:	N/A = N	lot Applicable				
		one Detected				
	* -					

* = Type detected observed in clumps

Classroom 3 Next to

Bathrooms

Location:

EnviroComp)	Indoor Air	nviroComp Quality Report nple Report	West Denr	School Street P.O. Box 444 his, MA 02670 508.737.4289
Company:	MAC Services, LL	C Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	North Elelmentary School 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020
Address:	21 Mill Pond Drive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/30/2020
City, ST, Zip:	Rochester, MA 02	2770 Lab No:	03536	Date Reported:	8/31/2020
Phone:	508-789-0983			Report Status:	Version 1
		Mold Identific	ation by Samples		
Sample N Client Sample Magnification	e ID: 41	3536-11 12111 10 X	Sample Medium Sampling Rate Total Liters	15L/Min for	co-D 5 Minutes

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	3	126	Rusts	ND	ND
Aspergillus/Penicillium-Like	2	84	Spegazzinia	ND	ND
Cladosporium	ND	ND	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 Com	ments:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	5			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cubic Meter):		211			
Reporting Notes: N/A = I	Not Applicable				
ND = N	None Detected				

 \star = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/30/2020 **Location:** Corridor in Basement Level

Pre-K Area

EnviroComp)	H2O E Indoor Air Air Sar	West Denr	School Street P.O. Box 444 his, MA 02670 508.737.4289	
Company:	MAC Services, LLC	Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020
Address:	21 Mill Pond Drive Project Notes:		Project Number: 2020- 211	Project Number: 2020- Date Analyzed:	
City, ST, Zip:	Rochester, MA 027	70 Lab No:	03536	Date Reported:	8/31/2020
Phone:	508-789-0983			Report Status:	Version 1
		Mold Identific	ation by Samples		
Sample Number: 03536-1 Client Sample ID: 4112118 Magnification: 600 X		2118	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specifie	d 2	84	Smuts	ND	ND
Basidiospores, Non-specif	ied 14	589	Rusts	ND	ND
Aspergillus/Penicillium-Lik	e 35	1474	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 Com	ments:	
Skin Fragment Prevalence	e; 1 (Low) to 4 (High):	1			
Background Density; 1 (Lo	ow) to 5 (Overloaded):	1			
	Total Fungal Raw Count:	58			
Analytical Sensitiv	ity (Spore/Cubic Meter):	42			
	Number of Traverses:	12			
Total Fungal Count (Spore/Cubic Meter):		2442			
Reporting Notes:	N/A = Not Applicable				
	ND = None Detected				

 \star = Type detected observed in clumps

Kitchen Next to Sink

Location:

EnviroComp)	Indoor Air	EnviroComp Quality Report mple 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:	8/20/2020				
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020				
Address:	21 Mill Pond Dr	ive Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020				
City, ST, Zip:	Rochester, MA	02770 Lab No:	03536	Date Reported:	8/31/2020				
Phone:	508-789-0983			Report Status:	Version 1				
Mold Identification by Samples									
Sample N Client Sample Magnification	e ID:	03536-13 4112117 600 X	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes				

Center of Cafeteria

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	6	253	Rusts	ND	ND
Aspergillus/Penicillium-Like	21	884	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 Comm	ents:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	29			
Analytical Sensitivity (Spore/C	Subic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cubic Meter):		1221			
	Not Applicable				
ND = N	Ione Detected				

 \star = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/31/2020

EnviroComp)	Indoor Air	EnviroComp Quality Report mple 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:	8/20/2020				
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020				
Address:	21 Mill Pond Dri	ive Project Notes:		Date Analyzed:	8/31/2020				
City, ST, Zip:	Rochester, MA	02770 Lab No:	03536	Date Reported:	8/31/2020				
Phone:	508-789-0983			Report Status:	Version 1				
Mold Identification by Samples									
Sample N Client Sample Magnification	e ID:	03536-14 4112110 600 X	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes				

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	6	253	Rusts	ND	ND
Aspergillus/Penicillium-Like	13	547	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 Com	ments:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	24			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Number of Traverses:		12			
Total Fungal Count (Spore/Co	1011				
	Not Applicable None Detected				

 \star = Type detected observed in clumps

Location: Tray Return/Washroom off

Cafeteria

EnviroComp)	Indoor Air	EnviroComp Quality Report mple Report	24 School Stree P.O. Box 44 West Dennis, MA 0267 Phone 508.737.428					
Company:	MAC Services,	LLC Inspector:	Joseph Cooney	Date Sampled:	8/20/2020				
Contact:	Joseph Cooney	Project Name:	North Elelmentary School; 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020				
Address:	21 Mill Pond Dr	ive Project Notes:		Date Analyzed:	8/31/2020				
City, ST, Zip:	Rochester, MA	02770 Lab No:	03536	Date Reported:	8/31/2020				
Phone:	508-789-0983			Report Status:	Version 1				
Mold Identification by Samples									
Sample N Client Sample Magnification	e ID:	03536-15 4112116 600 X	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes				

			Count/			Count/
Туре:		Raw Count	Cubic Meter	Туре:	Raw Count	Cubic Meter
Ascospores, Non-specif	ied	ND	ND	Smuts	ND	ND
Basidiospores, Non-spe	cified	16	674	Rusts	ND	ND
Aspergillus/Penicillium-L	_ike	860	36211	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 Com	ments:	
Skin Fragment Prevaler	nce; 1 (Low) to	4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
	Total Funga	al Raw Count:	880			
Analytical Sensi	tivity (Spore/C	ubic Meter):	42			
	Numbe	er of Traverses:	12			
Total Fungal Cor	unt (Spore/Cu	ubic Meter):	37053			
Reporting Notes:		Not Applicable Ione Detected				
* Turna datastad shase			avad in alum			

* = Type detected observed in clumps

Location: Bathroom off Kitchen Behind

Coolers

EnviroComp)	Indoor Air	nviroComp Quality Report nple Report	24 School Stre P.O. Box 44 West Dennis, MA 0267 Phone 508.737.428					
Company:	MAC Services, I	LLC Inspector:	Joseph Cooney	Date Sampled:	8/20/2020				
Contact:	Joseph Cooney	Project Name:	North Elelmentary School 580 Whetstone Hill Rd; Somerset, MA	Date Received:	8/21/2020				
Address:	21 Mill Pond Driv	ve Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020				
City, ST, Zip:	Rochester, MA (02770 Lab No:	03536	Date Reported:	8/31/2020				
Phone:	508-789-0983			Report Status:	Version 1				
Mold Identification by Samples									
Sample N Client Sample Magnificatior	e ID: 4	03536-16 1112115 500 X	Sample Medium: Sampling Rate: Total Liters:	15L/Min for	o-D 5 Minutes				

otal Liters:75Location:Girls Bathroom off Cafeteria
Under Stained Ceiling Tile

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	6	253	Rusts	ND	ND
Aspergillus/Penicillium-Like	163	6863	Spegazzinia	ND	ND
Cladosporium	2	84	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 Comm	nents:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	172			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Number of Traverses:		12			
Total Fungal Count (Spore/Cubic Meter):		7242			
	Not Applicable Jone Detected				

 \star = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/31/2020

Page 16 of 16



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

Client: MAC Servic		ress: 21 Mill Po	ond Drive	Roche	ester, MA			
Project Name:	Project Name: North Elementary Schoul Project Number: 2020.211							
Proj. Address: 580 Whetstone Hill Rd. Town: Somerset State: MA Zip Code								
Sampled By: Joseph								
		ress(es) to Se ooney@macm				H2O Lab ID:		
	Rush 24 Hour 48 Hour 3 Day 5 Day Email 2:		******			03536		
		Sample		Volume D	ata			
SAMPLE ID	LOCATION	Type (Air, Tape Lift, Bulk)	Rate (I/min)	Time (min)	Volume	Sample Media (Air-O- Cell, Allergenco-D, etc)		
41/21.41	Outdoors @ West entrance	Air	15	5	75	Allergenco-D		
41121 46	SF CLASSYOUM AVEA	Air	15	5	75	Allergenco-D		
4112640	5/A CLASSroom Anet	Air	15	5	75	Allergenco-D		
4112145	Girls locker room	Air	15	5	75	Allergenco-D		
4112135	Boys Locker voom under mold contaminated ceiling to comder @ Nurses office	le Air	15	5	75	Allergenco-D		
4112150		Air	15	5	75	Allergenco-D		
4112114	Water Soundary BATL room Area 's	Air	15	5	75	Allergenco-D		
4112119	Middle of-carpeted Library	Air	15	5	75	Allergenco-D		
4112113	Art rooms area next to sinks	Air	15	5	75	Allergenco-D		
4/12/12	CLASSROOM 3 Next-to BAthrooms	Air	15	5	75	Allergenco-D		
Relinquished by:	seph Cooney A Date/Time: Date/Time:				Page	1 of 72		
Received by:	Date/Time	3/21/2020 V	/IA PIC	<u>CKU</u> P				



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

in the second second second								and the second
Client: MAC Services, LLC Phone: 508-789-0983				Client Address: 21 Mill Pond Drive Rochester, MA				
Project Name: North Elementary Schoul Project Number: 2020.211						•		
Proj. Address: 580 Whetstone Hill Rd. Town: Somerset						State: MA	Zip Code	-
Sampled By: Joseph Date: 8-20-2		seph Cooney	Email Addres					H2O Lab ID:
	Rush D 24 Hour D 48 Ho	bur 🖾 3 Day 🖾 5 Day	Email 2:				*****	03536
		······································	5	Sample		/olume D	ata	
SAMPLE ID	LO	CATION		Type (Air, Tape Lift, Bulk)	Rate (I/min)	Time (min)	Volume	Sample Media (Air-O- Cell, Allergenco-D, etc)
4/12/11		BASE ment leve	21 Pre-K Area.	Air	15	5	75	Allergenco-D
4112118	an an an de se anno an ann an Sanan an an an an an an dùthar an	kt to sink		Air	15	5	75	Allergenco-D
4112117	Center of		0	Air	15	5	75	Allergenco-D
4112110	Tray veturn/1	VASH VOOM offer Z Kitchen behi	Arivt	Air	15	5	75	Allergenco-D
4112116	BAthroom oft	Eoulevs	he	Air	15	5	75	Allergenco-D
41/2/15	BAthroom off	Zoulevs CAFETARIA STAINED Ceiling	tile.	Air	15	5	75	Allergenco-D
		0	1	Air	15	5	75	Allergenco-D
				Air	15	5	75	Allergenco-D
			1	Air	15	5	75	Allergenco-D
)	Air	15	5	75	Allergenco-D
Relinquished by:	N		Date/Time: Date/Time: <u>8/</u> 1	9 <u>/2020 V</u>		<u>CKU</u> P	Page	Z of Z



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.

Acremonium: 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 (hat 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.

Asperigillus/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. cincera*) 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.



mp 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).

Gandomera: 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.

Memnoniella: 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)



•Comp 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: 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 Type1 (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.