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Analysis Report prepared for

Mastertech North Jersey

4 Cove Rd.
Mount Arlington, NJ. 07856
Phone: (973) 346-2650

Job Number: IND 18 MT1
Job Name: Indiana 18
Date Sampled: 03-09-2018
Date Analyzed: 03-12-2018
Report Date: 03-12-2018

EPA Laboratory ID# VA01419



AIHA EMPAT Lab ID# 188863



Mold License: LAB1021



License: #PH-0198



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MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #18007633

**Mastertech North Jersey
4 Cove Rd.
Mount Arlington, NJ 07856**

March 12, 2018

Client Job Number: IND 18 MT1
Client Job Name: Indiana 18

Dear Mastertech North Jersey,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 12, 2018 we received 41 samples by FedEx for the job referenced above. 41 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



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Spore Trap Analysis
SOP #HMC101

HMC #18007633

Job Number: IND 18 MT1	Job Name: Indiana 18	Date Collected: 03/09/2018
Collected by: Eric Green		Date Received: 03/12/2018
Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number	18007633 - 1	18007633 - 2	18007633 - 3	18007633 - 4
Sample ID#	212822	2128181	1863047	1863408
Sample Name	Main Office	Principal's Office	Exterior OP	Media Room 1 Near Door
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18007633 - 1			18007633 - 2			18007633 - 3			18007633 - 4		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores							2	13	39.4%			
Aspergillus Penicillium												
Basidiospores	1	7	50.0%				3	20	60.6%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum	1	7	50.0%									
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	2	14		ND	ND		5	33		ND	ND	

Water Damage Indicator Common Allergen

Signature: P. Ramesh

Date: 03/12/2018

Reviewed by: Stephen A. Hayes

Date: 03/12/2018



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Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number	18007633 - 5	18007633 - 6	18007633 - 7	18007633 - 8
Sample ID#	1863045	2128187	2128191	2128158
Sample Name	Media Room 2	Room 1	Hall Adj 37	Room 30
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18007633 - 5			18007633 - 6			18007633 - 7			18007633 - 8		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores				1	7	> 99%	1	7	> 99%	1	7	50.0%
Aspergillus Penicillium												
Basidiospores	1	7	> 99%							1	7	50.0%
Bipolaris Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	1	7		1	7		1	7		2	14	

Water Damage Indicator Common Allergen

Signature: P. Ramesh

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Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number	18007633 - 9	18007633 - 10	18007633 - 11	18007633 - 12
Sample ID#	1863059	2128159	2128164	1863041
Sample Name	Room 12	Room 18	Caf/Gym 1 Right	CAF/Gym 2 Left
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	18007633 - 9			18007633 - 10			18007633 - 11			18007633 - 12		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	7	> 99%							1	7	> 99%
Aspergillus Penicillium												
Basidiospores				1	7	> 99%						
Bipolaris Drechslera												
Chaetomium												
Cladosporium							1	7	> 99%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	1	7		1	7		1	7		1	7	

Water Damage Indicator Common Allergen

Signature: P. Ramesh

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HMC ID Number	18007633 - 13	18007633 - 14	18007633 - 15	18007633 - 16
Sample ID#	2128169	2128192	1963037	2128174
Sample Name	Room 27	Room 21	Room 20	Storage B/W 23/24
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	1	2	2	2
Fragments	ND	ND	ND	ND

Organism	18007633 - 13			18007633 - 14			18007633 - 15			18007633 - 16		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores							1	7	50.0%			
Aspergillus Penicillium												
Basidiospores				1	7	> 99%	1	7	50.0%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium										1	7	> 99%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	ND	ND		1	7		2	14		1	7	

Water Damage Indicator Common Allergen

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Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number	18007633 - 17	18007633 - 18	18007633 - 19	18007633 - 20
Sample ID#	2128168	1863036	1863060	2128173
Sample Name	Room 24	Room 23	Lower Hall Elizabeth Ave	Room 10
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	2	2	2	1
Fragments	ND	ND	ND	ND

Organism	18007633 - 17			18007633 - 18			18007633 - 19			18007633 - 20		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores												
Aspergillus Penicillium												
Basidiospores	1	7	> 99%				1	7	50.0%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium							1	7	50.0%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	1	7		ND	ND		2	14		ND	ND	

Water Damage Indicator Common Allergen

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HMC #18007633

Job Number: IND 18 MT1	Job Name: Indiana 18	Date Collected: 03/09/2018
Collected by: Eric Green		Date Received: 03/12/2018
Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number	18007633 - 21	18007633 - 22	18007633 - 23	18007633 - 24
Sample ID#	2128179	2128167	2128160	2128197
Sample Name	Room 6	Room 5	Hallway 3/4	Hallway Clinic
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	1	2	2	1
Fragments	ND	ND	ND	ND

Organism	18007633 - 21			18007633 - 22			18007633 - 23			18007633 - 24		
	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores				1	7	50.0%	1	7	> 99%			
Aspergillus Penicillium												
Basidiospores												
Bipolaris Drechslera												
Chaetomium												
Cladosporium	1	7	> 99%									
Curvularia												
Epicoccum				1	7	50.0%						
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Unspecified Spore												
Total	1	7		2	14		1	7		ND	ND	

Water Damage Indicator Common Allergen

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HMC #18007633

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Collected by: Eric Green		Date Received: 03/12/2018
Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number	18007633 - 25			
Sample ID#	1863055			
Sample Name	Room 25			
Sample Volume	150 liters			
Reporting Limit	7 spores/M3			
Background	1			
Fragments	ND			

Organism	Raw Count	Count / M3	% of Total		
Alternaria					
Ascospores					
Aspergillus Penicillium					
Basidiospores	1	7	> 99%		
Bipolaris Drechslera					
Chaetomium					
Cladosporium					
Curvularia					
Epicoccum					
Fusarium					
Memnoniella					
Myxomycetes					
Pithomyces					
Stachybotrys					
Stemphylium					
Torula					
Ulocladium					
Unspecified Spore					
Total	1	7			

Water Damage Indicator Common Allergen

Signature: P. Ramesh

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Direct ID Analysis
SOP #HMC102

HMC #18007633

Job Number: IND 18 MT1	Job Name: Indiana 18	Date Collected: 03/09/2018
Collected by: Eric Green		Date Received: 03/12/2018
Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number: 18007633 - 26		Sample Media: Bulk	
Sample ID Number: Bulk 01		Sample Name: Hallway OH Near Main Office	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

HMC ID Number: 18007633 - 27		Sample Media: Swab	
Sample ID Number: Swab 01		Sample Name: Crawlspace Boiler Room	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

HMC ID Number: 18007633 - 28		Sample Media: Swab	
Sample ID Number: Swab 02		Sample Name: Hallway OH 18/21	
Organism	Spore Estimate	Mycelial Estimate	Note
Cladosporium	Rare	ND	

HMC ID Number: 18007633 - 29		Sample Media: Swab	
Sample ID Number: Swab 03		Sample Name: Room 18 OH Girder	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

Signature: P. Ramesh

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Direct ID Analysis
SOP #HMC102

HMC #18007633

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HMC ID Number: 18007633 - 30		Sample Media: Swab	
Sample ID Number: Swab 04		Sample Name: Room 20 OH	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

HMC ID Number: 18007633 - 31		Sample Media: Bio-Tape	
Sample ID Number: 3819088		Sample Name: Room 1 Shelf	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

HMC ID Number: 18007633 - 32		Sample Media: Bio-Tape	
Sample ID Number: 3809091		Sample Name: Room 30 Cabinet Door	
Organism	Spore Estimate	Mycelial Estimate	Note
Aspergillus	Heavy	Many	

HMC ID Number: 18007633 - 33		Sample Media: Bio-Tape	
Sample ID Number: 3269072		Sample Name: Room 12 OH	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

Signature: P. Ramesh

Date: 03/12/2018

Reviewed by: Stephen A. Hayes

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Direct ID Analysis
SOP #HMC102

HMC #18007633

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HMC ID Number: 18007633 - 34		Sample Media: Bio-Tape	
Sample ID Number: 5359065		Sample Name: Room 5 OH	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

HMC ID Number: 18007633 - 35		Sample Media: Bio-Tape	
Sample ID Number: 5349065		Sample Name: Room 24 OH	
Organism	Spore Estimate	Mycelial Estimate	Note
Cladosporium	Rare	ND	
Curvularia	Rare	ND	

HMC ID Number: 18007633 - 36		Sample Media: Bio-Tape	
Sample ID Number: 5009085		Sample Name: Room 21 OH Wall	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

HMC ID Number: 18007633 - 37		Sample Media: Bio-Tape	
Sample ID Number: 3399081		Sample Name: Eliz Ave Hallway	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

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Direct ID Analysis
SOP #HMC102

HMC #18007633

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Email: eric@mastertechnj.com		Date Reported: 03/12/2018

HMC ID Number: 18007633 - 38		Sample Media: Bio-Tape	
Sample ID Number: 3269094		Sample Name: Room 23 Wall Ext	
Organism	Spore Estimate	Mycelial Estimate	Note
No Fungi Detected			

HMC ID Number: 18007633 - 39		Sample Media: Bio-Tape	
Sample ID Number: 3259072		Sample Name: Room 23 Window Sill	
Organism	Spore Estimate	Mycelial Estimate	Note
Curvularia	Rare	ND	

HMC ID Number: 18007633 - 40		Sample Media: Bio-Tape	
Sample ID Number: 3819077		Sample Name: Storage 23/24 Ceiling	
Organism	Spore Estimate	Mycelial Estimate	Note
Cladosporium	Heavy	Few	

HMC ID Number: 18007633 - 41		Sample Media: Bio-Tape	
Sample ID Number: 3819093		Sample Name: Room 2 Window Sill	
Organism	Spore Estimate	Mycelial Estimate	Note
Myxomycetes	Rare	ND	

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Spore Trap Information

HMC #18007633

Reporting Limit The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.

Blanks Results have not been corrected for field or laboratory blanks.

Background The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 4 and each level is determined as follows:

- ND** : No background detected. (Pump or cassette malfunction.) Recollect sample.
- 1** : <5% of field occluded. No spores will be uncountable.
- 2** : 5-25% of field occluded.
- 3** : 25-75% of field occluded.
- 4** : 75-90% of field occluded.
- 5** : >90% of field occluded. Suggest recollection of sample.

Fragments Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.

Water Damage Indicators	These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergens	Although all molds are potential allergens, these are the most common allergens that may be found indoors.



Additional Information for Direct Identification Analysis

Spore Estimate		Percentages
ND	None Detected	0%
Rare	Less than 10 spores	< 1%
Light	10 - 99 spores	1-10%
Moderate	100 - 999 spores	11-25%
Heavy	1000 - 9999 spores	26-50%
Very Heavy	10000 or greater spores	51-100%

Mycelial Estimate		
ND	None Detected	No active growth at site
Trace	Very small amount of Mycelium	Probably no active growth at site
Few	Some Mycelium	Possible active growth at site
Many	Large amount of Mycelium	Probable active growth at site



Ascospores

Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.

Health Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus

Habitat: One of the most common fungi isolated from the environment. Found in soil, decomposing plant material, and indoors on a wide variety of cellulose containing materials.

Health Effects: Known to be allergenic and many species also produce mycotoxins. They are a common cause of extrinsic asthma and hypersensitivity pneumonitis. Many species are opportunistic pathogens and are known to cause sinus lesions, ear infections, respiratory infections, and invasive systemic disease.

Basidiospores

Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.

Health Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Cladosporium

Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

Health Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

Curvularia

Habitat: They exist in soil and plant debris, and are plant pathogens.

Health Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.

Epicoccum

Habitat: It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.

Health Effects: It is a common allergen. No cases of infection have been reported in humans.

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Health Effects: Some allergenic properties reported, but generally pose no health concerns to humans.
