



AccuScience™
Analysis Report

QLab, 256 Bridge St, Metuchen, NJ 08840

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AIHA EMPAT Lab ID: 178794

Analysis: AccuScience Premium Level 3 Fungal Spore Count™
Client: RK Environmental
Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: Hackettstown Middle School
Date Sampled: 7/1/2019

QLab Job No.: ME190702-02
Date Received: 7/2/2019
Date Analyzed: 7/2/2019
Date Reported: 7/2/2019

Reviewed by: WT

Approved by: Wei-Chih Tang, Ph.D., Lab Director

Lab Sample No.	ME190702-02(1)			ME190702-02(2)		
Sample ID	2804396			2804397		
Sample Location	Rm 127 Closet			OAR		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L		
Total Concentration (counts/m³)**	160,000 cts/m³			9,900 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
1. Common Dominant Spores	DL = 400; LQL = 8000 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)				79	1,100	11
Basidiospores (O,I)				654	8,700	88
Cladosporium, Group HM (O)						
Aspergillus/Penicillium-like, DOT (O)						
#Cluster-Chain-Loose Spore Profile™						
Cladosporium, Group C (O,I)						
Cladosporium, Group S (I)						
Aspergillus/Penicillium-like (I,O)	6,161	82,000	53			
## Cluster-Chain-Loose Spore Profile™		0% - 0% - 100%				
Cluster(s)						
2. Indoor Hydrophilic Fungi#	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)	483	6,400	4			
Chaetomium (I)	3,292	44,000	28			
Ulocladium (I)						
Memnoniella (I)						
Trichoderma (I)						
Scopulariopsis (I)						
3. Others	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)	1,691	23,000	15	1	13	<1
Alternaria (O,I)						
Cercospora (O)				1	13	<1
Curvularia (O,I)						
Drechslera/Bipolaris-like (O)						
Epicoccum (O)				1	13	<1
Fusarium (O,I)						
Myxomycetes/Smuts/Periconia (O,I)						
Nigrospora (O)						
Pithomyces (O)						
Rusts (O)						
Unknown (O,I)	6	80	<1	2	27	<1
Skin Cells Rating	Medium			None		
Debris Rating	3 (26 - 75%)			1 (≤ 5%)		
Note						

*: cts/smp: counts per sample. **: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.



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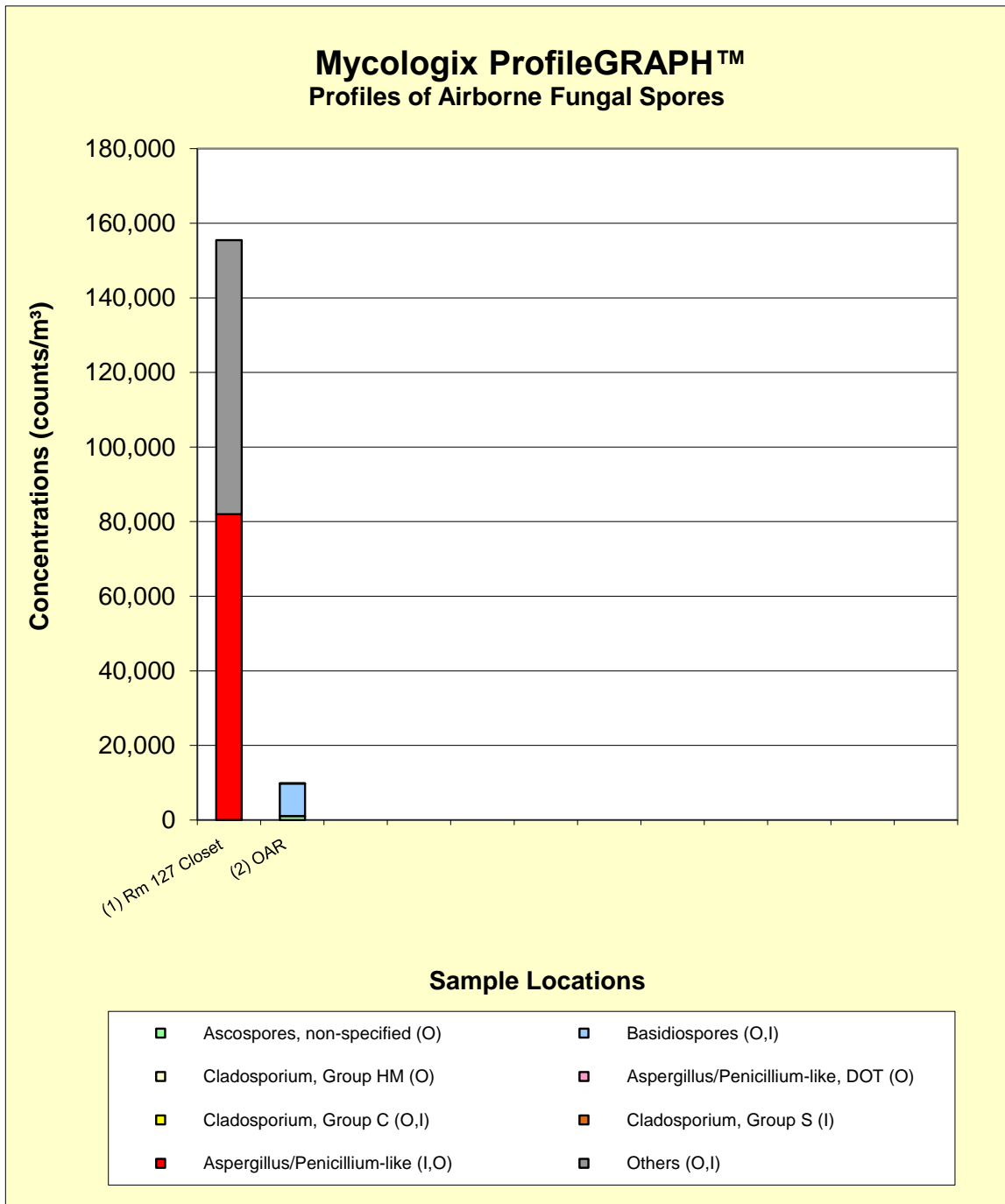
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Please see original data for complete interpretation.





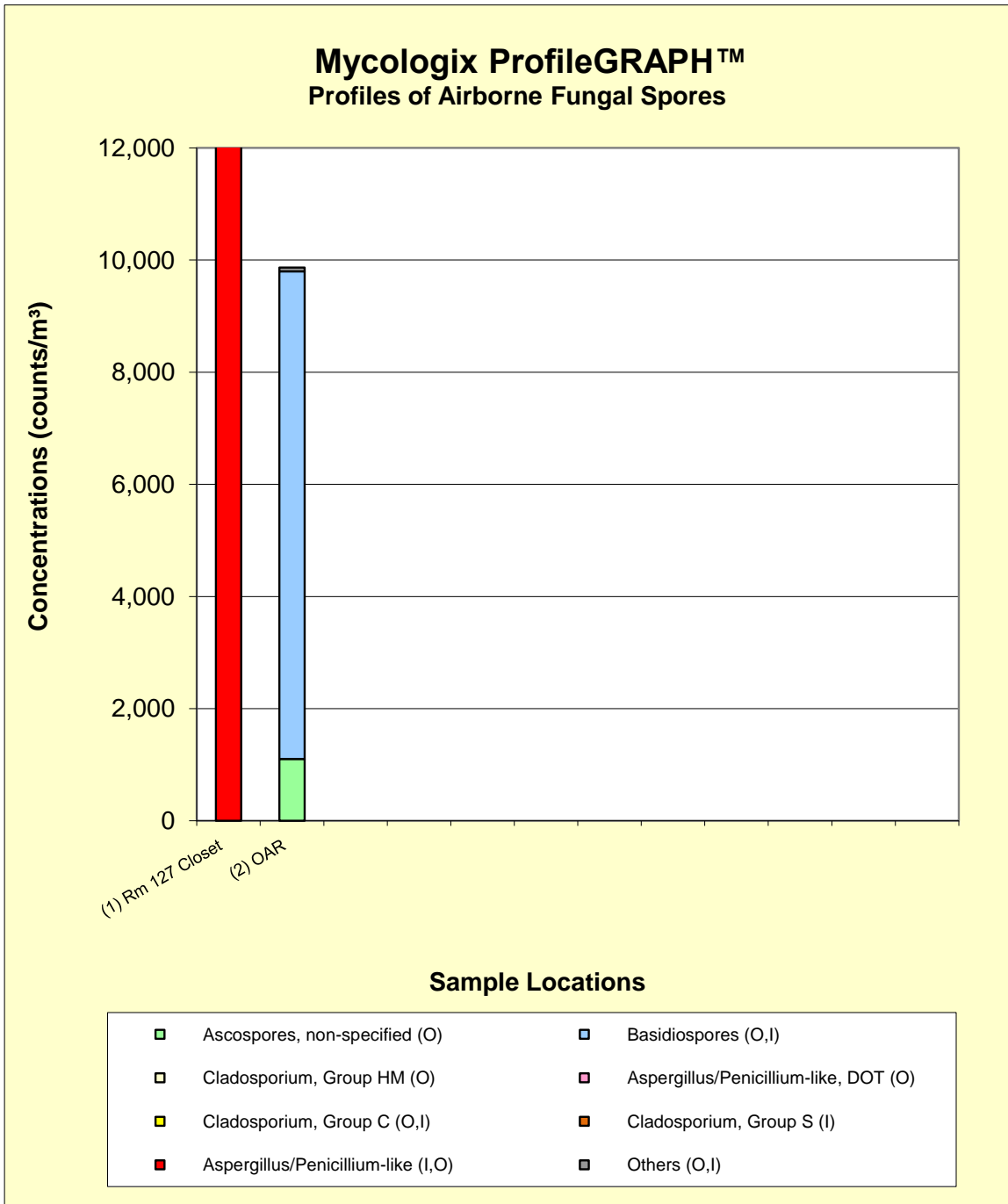
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Analysis: AccuScience Premium Direct Exam (FD-02HP)
Client: RK Environmental
Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: Hackettstown Middle School

QLab Job No.: ME190702-02
Date Sampled: 7/1/2019
Date Received: 7/2/2019
Date Reported: 7/2/2019

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Lab Sample No.	ME190702-02(3)			
Sample ID	RK-HMS-01T			
Sample Location	Rm 127 Closet			
Sample Type (Device)	Surface (Gel.TAPE)			
Date Analyzed	7/2/2019			
Identification	(1) Peak Density (within 1 mm dia.)*			
	Spores	Hyphae/Structure		
Major Hydrophilic Fungi:***				
Stachybotrys				
Chaetomium	2	1		
Ulocladium				
Acremonium				
Trichoderma				
Aureobasidium				
Yeasts (cells)				
Other Fungi:				
Aspergillus/Penicillium-like				
Aspergillus				
Penicillium				
Cladosporium				
Alternaria				
Curvularia				
Epicoccum				
Myxomycetes/smuts/Periconia	1			
Nigrospora				
Pithomyces				
Unidentifiable w/o culturing	1	1		
Summary	(2) Overall Coverage			
Sample Size Examined	150 mm ²			
Mycologix™ Fungal Biomass Level#	2B: Residual Biomass			
Mold/Yeast Growth Observed	Settled or Residual			
Sample Mold/Yeast Coverage**	Trace: < 3%			
Sample Debris Coverage**	H : > 50%			
Note				

Mycologix™ Fungal Biomass Level: 1: Normal Background, 2A: Settled Biomass, 2B: Residual Biomass
3A: Slight Growth, 3B: Moderate Growth, 3C: Heavy Growth

*Peak Density: Peak density of fungal biomass (spores, reproduction structures, hyphae, etc.) observed under the microscope within the viewfield of 200X magnification (approximately 1 mm in diameter).

4, 3, 2, 1: Biomass covering >50%, 10-50%, 3-10%, <3% of the 200X viewfield, respectively

** Sample Coverage of Fungi/Debris: Overall coverage of fungal biomass/debris collected on the tape samples
Tape/slide samples are taken from bulk/swab samples received and then analyzed under microscope.

H, M, L, T (Trace): Biomass/debris covering >50%, 10-50%, 3-10%, <3% of the entire sample, respectively

***Hydrophilic Fungi: Water-loving fungi, Min. Aw >0.89. Absence of hydrophilic fungi does not exclude the possibility of a water damage history.