



Report for:

Richard Walters
Bixby Public Schools
109 N. Armstrong
Bixby, OK 74008

Regarding: Project: CI; Front Office, 124, 125, 126
EML ID: 2006431

Approved by:

Dates of Analysis:
Spore trap analysis: 09-25-2018

Technical Manager
Murali Putty

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102856

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Bixby Public Schools
C/O: Richard Walters
Re: CI; Front Office, 124, 125, 126

Date of Sampling: 09-20-2018
Date of Receipt: 09-21-2018
Date of Report: 09-25-2018

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	1: Pre Outside Air			2: Front Office			3: Rm 124		
Comments (see below)	None			None			None		
Lab ID-Version‡:	9462168-1			9462169-1			9462170-1		
Analysis Date:	09/25/2018			09/25/2018			09/25/2018		
	raw ct.	adj. ct.	spores/m3	raw ct.	adj. ct.	spores/m3	raw ct.	adj. ct.	spores/m3
Alternaria	10	10	67						
Ascospores	63	252	1,700	3	12	80			
Basidiospores	233	932	6,200	5	20	130			
Bipolaris/Drechslera group	1	1	7	2	2	13			
Chaetomium									
Cladosporium	144	576	3,800	1	4	27			
Curvularia	14	14	93	1	1	7			
Epicoccum				1	1	7			
Fusarium									
Myrothecium									
Nigrospora	15	15	100						
Other brown	8	8	53	2	2	13			
Other colorless	1	1	7						
Penicillium/Aspergillus types†	21	84	560	13	52	350			
Pithomyces	1	1	7						
Rusts				1	1	7			
Smuts, Periconia, Myxomycetes	42	42	280	2	2	13			
Stachybotrys									
Stemphylium									
Torula									
Ulocladium									
Zygomycetes									
Background debris (1-4+)††	3+			3+			< 1+		
Sample volume (liters)	150			150			150		
§ TOTAL SPORES/m3			13,000			650			< 7

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/m³ has been rounded to two significant figures to reflect analytical precision.

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C/O: Richard Walters
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Date of Sampling: 09-20-2018
Date of Receipt: 09-21-2018
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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	4: Rm 125			5: Rm 126			6: Post Outside Air		
Comments (see below)	None			None			None		
Lab ID-Version‡:	9462171-1			9462172-1			9462173-1		
Analysis Date:	09/25/2018			09/25/2018			09/25/2018		
	raw ct.	adj. ct.	spores/m3	raw ct.	adj. ct.	spores/m3	raw ct.	adj. ct.	spores/m3
Alternaria							10	10	67
Ascospores	1	4	27				64	256	1,700
Basidiospores	3	12	80				166	664	4,400
Bipolaris/Drechslera group							1	1	7
Chaetomium									
Cladosporium							292	1,168	7,800
Curvularia							3	3	20
Epicoccum	1	1	7						
Fusarium									
Myrothecium									
Nigrospora							7	7	47
Other brown	1	1	7				6	6	40
Other colorless				1	1	7	3	3	20
Penicillium/Aspergillus types†							7	28	190
Pithomyces	1	1	7				3	3	20
Rusts									
Smuts, Periconia, Myxomycetes	1	1	7				42	42	280
Stachybotrys									
Stemphylium									
Torula									
Ulocladium									
Zygomycetes									
Background debris (1-4+)††	2+			< 1+			4+		
Sample volume (liters)	150			150			150		
§ TOTAL SPORES/m3			130			7			15,000

Comments:

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