

ENVIRONMENTAL ANALYSIS ASSOCIATES, INC.

306 5th Street, Suite 2A - Bay City, MI 48708



LABORATORY REPORT

AIRBORNE MOLD SPORE ANALYSIS

Report prepared for : ABC Environmental

Client Project # : 12678

Project Description : 110 Palm Street

EAA Project # : 21-0099

Samples Collected : 1/9/21

Samples received : 1/12/21

Date of Analysis : 1/13/21

Authorized / data reviewed by : *Joseph R. Heintskill*

Joseph R. Heintskill
Laboratory Manager

AIHA-LAP, LLC Accredited, Lab ID#: 220804

The EAA sample results are only applicable to the items tested and locations as received. Sample descriptions and volumetric data are provided by the client. All particle concentrations are rounded to 3 significant figures. In order for chart clarity, cells where the particle category was not detected are intentionally left blank.

Environmental Analysis Associates, Inc. (EAA) shall not be liable to the client or the client's customer with respect to interpretation, recommendations made or actions implemented by either the client or the client's customer as a result of or based upon the test results.

All samples were received in acceptable condition unless noted in the General Comments section of the data report.



AIRBORNE MOLD SPORE ANALYSIS

EAA Method #: MOLD-A01

Client Name : ABC Environmental

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Client Project # : 12678

Project description : 110 Palm Street

Requested by : John Smith

Date collected : 1/9/21

Sample condition : Acceptable as received

EAA Project# : 21-0099

Sample received : 1/12/21

Client Sample#	Sample Description / Location	Background dust Loading - General Comments
1	Room 1	Typical dust
2	Room 2	Typical dust
3	Kitchen	Typical dust
4	Lobby	Atypical dust
5	Outdoor	Typical dust

AIRBORNE MOLD SPORE CONCENTRATIONS (Cts./m ³) -- Spore Trap Sample Analysis High mag. used 500X						
Category	Sample # -->	1	2	3	4	5
Total Mold Spores (Cts/m³)		640	732	2380	6720	23200

Alternaria						
Aspergillus/Penicillium				777	5030	91
Pigmented Asco & Basidio	91	46		91	183	1140
Mix tiny, hyal Asco & Basidio	457	686		960	1280	21300
Botrytis						
Chaetomium				46		
Cladosporium	91			137	229	594
Curvularia						
Drechslera/Bipolaris						
Epicoccum						
Fusicladium-like						
Nigrospora						
Oidium/Peronospora						
Pithomyces						46
Rusts						
Smuts / Myxomycetes / Periconia						46
Stachybotrys				366		
Stemphylium						
Torula						
Ulocladium						
Other Hyaline Fungi						
Other Fungi						
Unidentified Fungi						
Hyphae fragments				91	137	46
Algal / fern spores						
Insect parts						

POLLEN (Total cts/m ³)	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
Not specified					
Pinus / other					

COMMON AEROSOLS (cts/m ³)	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
Skin cell fragments					
Fiberglass fibers					
Cellulosic / synthetic fibers					
Unidentified opaque					
Mineral / clay soil dust					

OTHER PARTICLES (cts/m ³)	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed

Statistical Parameters					
Vol. analyzed (m ³)-high mag - 500x :	0.022	0.022	0.022	0.022	0.022
Detect limit(Cts/m ³)-high magnification:	45.7	45.7	45.7	45.7	45.7
% sample analyzed-high magnification:	29%	29%	29%	29%	29%
Vol. analyzed(m ³)-entire sple 150-300x:	0.075	0.075	0.075	0.075	0.075
* Detection limit (Cts/m ³)-entire sple:	13.3	13.3	13.3	13.3	13.3
* Note: The "entire sample" detection limit applies to the "large" particle categories analyzed during the low magnification examination of the entire sample					
Sample flow rate (lpm):	15.0	15.0	15.0	15.0	15.0
Sample trace length (mm):	14.40	14.40	14.40	14.40	14.40
Microscope field diameter (mm):	0.420	0.420	0.420	0.420	0.420

Note: Sample results are only applicable to the items tested and locations as received. Sample descriptions and volumetric data are provided by the client. rev.2021-All Clients-1/4/21
 Background dust loading criteria (Estimated area%): Typical-low <5%, Typical 5-20%, Atypical, 20-40%, Elevated 40-80%, Overloaded >80%

Authorized / data reviewed by: Joseph R. Heintskill
 Analyst : j/s

Report date: 1/13/21
 Date analyzed: 1/13/21



AIRBORNE MOLD SPORE ANALYSIS
(Mold and Dust Comparison Summary - Cts/m³)

EAA Method #: MOLD-A01

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Client Name : ABC Environmental
 Client Project # : 12678
 Requested by : John Smith

Project description : 110 Palm Street
 EAA Project# : 21-0099

Sample # Description	Mold Spores * Total	Aspergillus / Penicillium	Chronic		Outdoor Spores	Hyphae Fragments	Pollen	Skin cell Fragments	Fibrous Dust		Non-Fibrous dust		Other Particles
			W.I. Fungi						Min. wool / Fiberglass	Cellulose/ Synthetic	Unident. Opaque	Crystalline Minerals	
1 Room 1	640				640								
2 Room 2	732				732								
3 Kitchen	2,380	777	412		1,190								
4 Lobby	6,720	5,030			1,690								
5 Outdoor	23,200	91			23,100								

Note: Sample results are only applicable to the items tested and locations as received. Sample descriptions and volumetric data are provided by the client. All individual particle category values are rounded to 3 significant figures. In order to provide chart clarity, measurements where the particle category was not detected are intentionally left blank. This test report shall not be reproduced except in full, without the written approval of the laboratory.

For additional information regarding interpretation of the results, refer to the document "Air Profile Summary Report" which is available at: <https://eaalab.com/news-publications/>. This reference document is only intended as a preliminary comparison of data collected on your project with historical measurements from other buildings. Final conclusions and interpretation regarding how the tested items apply to site-specific conditions on your project are not provided within this EAA laboratory report, and can only be provided by the IEP or client that conducted the original inspection and sample collection.



AIRBORNE MOLD SPORE ANALYSIS

EAA Method #: MOLD-A01

RAW COUNT DATA ONLY - Do not use for volumetric concentration comparisons

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Client Name : ABC Environmental

Description : 110 Palm Street

end of report

Client Project # : 12678

Date collected : 1/9/21

EAA Project# : 21-0099

Sample received : 1/12/21

Analysis magnification : 500x

Client Sample#	Sample Description / Location	Raw / Extrapolated Count Comments
1	Room 1	Note: When a <u>fractional</u> raw particle count is present, (e.g. 0.3), the count is based on counting the "entire sample" at low magnification. The results are then "back-calculated" to the high magnification detection limit for that specific particle category. This "raw" count page is required to be reported to the client as directed by the AIHA-LAP accreditation program.
2	Room 2	
3	Kitchen	
4	Lobby	
5	Outdoor	

AIRBORNE MOLD / DUST (Raw / Extrapolated Spore Counts Only) - Spore Trap Sample Analysis						
Category	Sample # -->	1	2	3	4	5
Total Mold Spores - Total Cts.		14	16	52	147	508

Alternaria				17	110	2
Aspergillus/Penicillium						
Pigmented Asco & Basidio	2		1	2	4	25
Mix tiny, hyal Asco & Basidio	10		15	2	28	466
Botrytis						
Chaetomium				1		
Cladosporium	2			3	5	13
Curvularia						
Drechslera/Bipolaris						
Epicoccum						
Fusicladium-like						
Nigrospora						
Oidium/Peronospora						
Pithomyces						1
Rusts						
Smuts / Myxomycetes / Periconia						1
Stachybotrys				8		
Stemphylium						
Torula						
Ulocladium						
Other Hyaline Fungi						
Other Fungi						
Unidentified Fungi						
Hyphae fragments				2	3	1
Algal / fern spores						
Insect parts						

POLLEN (Total cts)	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
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Not specified						
Pinus / other						

COMMON AEROSOLS	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
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Skin cell fragments						
Fiberglass fibers						
Cellulosic / synthetic fibers						
Unidentified opaque						
Mineral / clay soil dust						

OTHER PARTICLES	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed	not analyzed
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Statistical Parameters						
Vol. analyzed (m3)-high mag - 500x :	0.022	0.022	0.022	0.022	0.022	0.022
Detect limit(Cts/m ³)-high magnification:	45.7	45.7	45.7	45.7	45.7	45.7
% sample analyzed-high magnification:	29%	29%	29%	29%	29%	29%
Vol. analyzed(m ³)/entire sple 150-300x:	0.075	0.075	0.075	0.075	0.075	0.075
* Detection limit (Cts/m ³)/entire sple:	13.3	13.3	13.3	13.3	13.3	13.3
* Note: The "entire sample" detection limit applies to the "large" particle categories analyzed during the low magnification examination of the entire sample						
Sample flow rate (lpm):	15.0	15.0	15.0	15.0	15.0	15.0
Sample trace length (mm):	14.40	14.40	14.40	14.40	14.40	14.40
Microscope field diameter (mm):	0.420	0.420	0.420	0.420	0.420	0.420

NOTE: The raw particle count data cannot be used as a measure of the actual airborne concentration and only represents the number of "raw" or extrapolated particles counted. Where a fractional value is present (e.g. 0.3 or 1.3) for any mold or dust category, the entire trace for this category was analyzed and the "entire sample detection limit" applies.