

ENVIRONMENTAL ANALYSIS ASSOCIATES, INC.

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



LABORATORY REPORT

AIRBORNE MOLD AND DUST ANALYSIS

Report prepared for : ABC Environmental

Client Project # : 127789

Project Description : 5567 Oak Drive

EAA Project # : 21-0123

Samples Collected : 1/5/21

Samples received : 1/13/21

Date of Analysis : 1/13/21

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

Joseph R. Heintskill
Laboratory Manager

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 AND DUST ANALYSIS

EAA Method #: DUST-A01

Client Name : ABC Environmental

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Client Project # : 127789

Project description : 5567 Oak Drive

Requested by : Joe Johnson

Date collected : 1/5/21

Sample condition : Acceptable as received

EAA Project# : 21-0123

Sample received : 1/13/21

Client Sample#	Sample Description / Location	Background dust Loading - General Comments
1	Bedroom 1	Typical dust
2	Bathroom	Typical dust
3	Living Room	Elevated skin fragments
4	Kitchen	Elevated fiberglass fibers
5	Outdoor	Atypical opaque dust

AIRBORNE MOLD SPORE CONCENTRATIONS (Cts./m ³) -- Spore Trap Sample Analysis						
Category	Sample # -->	1	2	3	4	5
<i>High mag. used 500X</i>						
Total Mold Spores (Cts/m³)		823	1650	2200	3660	18900

Alternaria						
Aspergillus/Penicillium			183	274		137
Pigmented Asco & Basidio	91	183	91	46	1550	
Mix tiny, hyal Asco & Basidio	640	960	1650	3200	17100	
Botrytis						
Chaetomium						
Cladosporium	91	274	183	411		
Curvularia						46
Drechslera/Bipolaris						
Epicoccum						
Fusicladium-like						
Nigrospora						
Oidium/Peronospora						
Pithomyces						46
Rusts						
Smuts / Myxomycetes / Periconia						46
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Other Hyaline Fungi						
Other Fungi		46				
Unidentified Fungi						
Hyphae fragments						46
Algal / fern spores						
Insect parts						

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

COMMON AEROSOLS (cts/m3)					
Skin cell fragments	6580	3290	28400	10300	91
Fiberglass fibers				137	
Cellulosic / synthetic fibers	366	137	1190	503	
Unidentified opaque	1280	1780	2700	3840	10300
Mineral / clay soil dust	4570	6490	20900	24700	11200
OTHER PARTICLES (cts/m3)	not detected	not detected	not detected	not detected	not detected

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

Report date: 1/13/21

Analyst : j/s

Date analyzed: 1/13/21

AIRBORNE MOLD AND DUST ANALYSIS

(Mold and Dust Comparison Summary - Cts/m³)

Client Name : ABC Environmental

Client Project # : 127789

Requested by : Joe Johnson

Project description : 5567 Oak Drive

EAA Project# : 21-0123

Sample # Description	Mold Spores		Chronic W.I.		Outdoor Spores	Hyphae Fragments	Pollen	Fibrous Dust		Non-Fibrous dust		Other Particles
	* Total	Aspergillus / Penicillium	W.I. Fungi					Min. wool / Fiberglass	Cellulose / Synthetic	Unident. Opaque	Crystalline Minerals	
1 Bedroom 1	823				823			6,580	366	1,280	4,570	
2 Bathroom	1,650	183			1,460			3,290	137	1,780	6,490	
3 Living Room	2,200	274			1,920			28,400	1,190	2,700	20,900	
4 Kitchen	3,660				3,660			10,300	137	503	3,840	24,700
5 Outdoor	18,900	137			18,800	46		91		10,300	11,200	

* Note : All individual particle category values are rounded to 3 significant figures. As a result, individually summed mold categories may appear slightly different than the "Total" value
 Chronic water indicating fungi (W.I.), include the genera *Chaetomium*, *Stachybotrys*, *Ulocladium*, and *Trichoderma*. The hyphae fragments category includes hyphae (mycelia), phialides, perithecia, etc. In order for chart clarity, measurements where the particle category was not detected are intentionally left blank.

DISCLAIMER: This **AIR PROFILE** Comparison Summary is only a supplement to the actual data reports provided by EAA and shall not be reproduced except in full without the written approval of the laboratory. The sample results are only applicable to the items tested and locations as received. The sample descriptions and volumetric data are provided by the client. The statistical guideline ranges are based on the percentile frequency of occurrence of airborne mold and dust particles (cts/mm³) measured by EAA in over 3,500 commercial and residential building samples during 2017 and 2018. The ranges are only intended to be used as an initial comparison with levels measured on your project. The laboratory test results are secondary support information to be used in conjunction with a thorough visual inspection provided by a qualified environmental professional. The local background and site specific building conditions must be considered by the investigator in order to render independent opinions or conclusions as to whether or not the concentrations measured by the EAA laboratory may represent a typical, atypical, or elevated condition on your specific project.

Range	Percentile
Elevated - 6	>99%
Elevated - 5	>95%
Atypical - 4	>90%
Atypical - 3	>75%
Typical - 2	>50%
Typical - 1	<50%



AIRBORNE MOLD AND DUST ANALYSIS

EAA Method #: DUST-A01

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

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Client Name : ABC Environmental
 Client Project # : 127789
 EAA Project# : 21-0123

Description : 5567 Oak Drive
 Date collected : 1/5/21
 Sample received : 1/13/21

end of report
 Analysis magnification : 500x

Client Sample#	Sample Description / Location	Raw / Extrapolated Count Comments				
1	Bedroom 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	Bathroom					
3	Living Room					
4	Kitchen					
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.		18	36	48	80	415
Alternaria						
Aspergillus/Penicillium						
Pigmented Asco & Basidio						
Mix tiny, hyal Asco & Basidio						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Drechslera/Bipolaris						
Epicoccum						
Fusicladium-like						
Nigrospora						
Oidium/Peronospora						
Pithomyces						
Rusts						
Smuts / Myxomycetes / Periconia						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Other Hyaline Fungi						
Other Fungi						
Unidentified Fungi						
Hyphae fragments						
Algal / fern spores						
Insect parts						
POLLEN (Total cts)		not detected	not detected	not detected	not detected	not detected
Not specified						
Pinus / other						
COMMON AEROSOLS		280	256	1165	864	472
Skin cell fragments						
Fiberglass fibers						
Cellulosic / synthetic fibers						
Unidentified opaque						
Mineral / clay soil dust						
OTHER PARTICLES		not detected	not detected	not detected	not detected	not detected
Statistical Parameters						
Vol. analyzed (m3)-high mag - 500x :						
Detect limit(Cts/m ³)-high magnification:						
% sample analyzed-high magnification:						
Vol. analyzed(m ³)/entire sple 150-300x:						
* Detection limit (Cts/m ³)/entire sple:						
* 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):						
Sample trace length (mm):						
Microscope field diameter (mm):						

RAW / EXTRAPOLATED COUNT DATA ONLY
 (DO NOT USE FOR CONCENTRATION COMPARISONS)

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.