

Indoor Air Quality Report of Findings

Prepared for:

South Eastern School District
375 Main St.

Fawn Grove, PA 17321-9545
04-10-10 West Middle School
Post Bio-Fresh Treatment

Prepared by:

Airborne Contamination Identification Assocs, Ltd.

Randall R. Leaman

"A Certified Indoor Air Quality Professional"

2 Interchange Place

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Data Collected

Location	Fungi CFU's
#1 - Swab Room #406 Ductwork	<10
#2 - Swab Room #206 Ductwork	<10

NOTES: Surface Swab fungi are 1" ².

Location	Fungi CFU's
#3 - Room #406	13
#4 - Room #2506	25
Library	25
Music Room	<13
Outside Air	190

NOTES: The airborne fungi counts are in colony forming units per cubic meter of air.

Guidelines for Evaluation of Airborne Microbial Contamination of Buildings

IAQ Evaluation	Category of Contamination	Bacteria CFU's/m ³	FUNGI CFU's/m ³
Excellent	Very Low	<100	<50
Good	Low	<500	<200
Marginal	Intermediate	<2,500	<1,000
Poor	High	<10,000	<10,000
Very Poor	Very High	>10,000	>10,000

By Brian Flanigan, PhD (Citing Wanner, et al, 1993) as presented to the International Conference on Fungi and Bacteria in Indoor Air Environments – Health Effects, Detection and Remediation; October 6-7, 1994

Table: Levels of Microbial Contamination of air and dust in naturally ventilated homes and non-industrial indoor work environments.

American Industrial Hygiene Association (AIHA), *The Synergist*, Geoffery Clark, *The Synergist*, 2001, updated 2003, and Godish 2001 (section).

Type	Normal Background*	Possible	Probable
Air Samples from Residential Buildings	<500 cfu/m ³	500-1,000 cfu/m ³	>1,000 cfu/m ³
Air Samples from Commercial Buildings (filtered HVAC system)	<250 cfu/m ³	250-1,000 cfu/m ³	>1,000 cfu/m ³
Bulk Samples	<10,000 cfu/g	10,000-100,000 cfu/g	>100,000 cfu/g
Swab Samples	<10,000 cfu/in ² <1,500 cfu/cm ²		>10,000 cfu/in ² >1,500 cfu/in ²
Tape Samples	NSFM, NSFC 1-5% <10,000 spores/in ²	5-25%	25-100% >10,000 spores/in ²

The table list mold spore levels considered to be a normal background, possible contamination, and probable contamination for a variety of sample collection methods.

- Types and relative proportions of fungal spores should be similar to outdoors.
- NSFM = no significant fungal material
- NSFC = no significant fungal contamination
- Cfu/m³ = colony forming units per cubic meter
- Cfu/g = colony forming units per gram of dust or material
- Cfu/in² = colony forming units per square inch of surface

“ Worldwide Exposure Standards for Mold and Bacteria”
By Robert C. Brandys, PhD, MPH, PE, CIH, CSP, CMR
Gail M. Brandys, MS, CSP, CMR

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Client: ACIA - Airborne Contamination
 Identification
 Associates, Ltd
 C/O: Mr. Randy Leaman
 Re: S.E.S.D. West Middle

Date of Sampling: 04-10-2010
 Date of Receipt: 04-13-2010
 Date of Report: 04-20-2010

FUNGAL CULTURE REPORT

Lab ID-Version‡ Location	Sample Size/ Report Unit	Medium	Dilution Factor	Fungal ID	Colony Counts	CFU/unit	%
2867431-1 #1 Swab - Room 406	Size: 1 in2 Unit: 1 in2	MEA	10	No fungi detected		§ Total: < 10	100
Comments:							
2867432-1 #2 Swab - Room 206	Size: 1 in2 Unit: 1 in2	MEA	10	No fungi detected		§ Total: < 10	100
Comments:							

When detected, the minimum detection and reporting limit is a colony count of 1 at the lowest dilution plated.

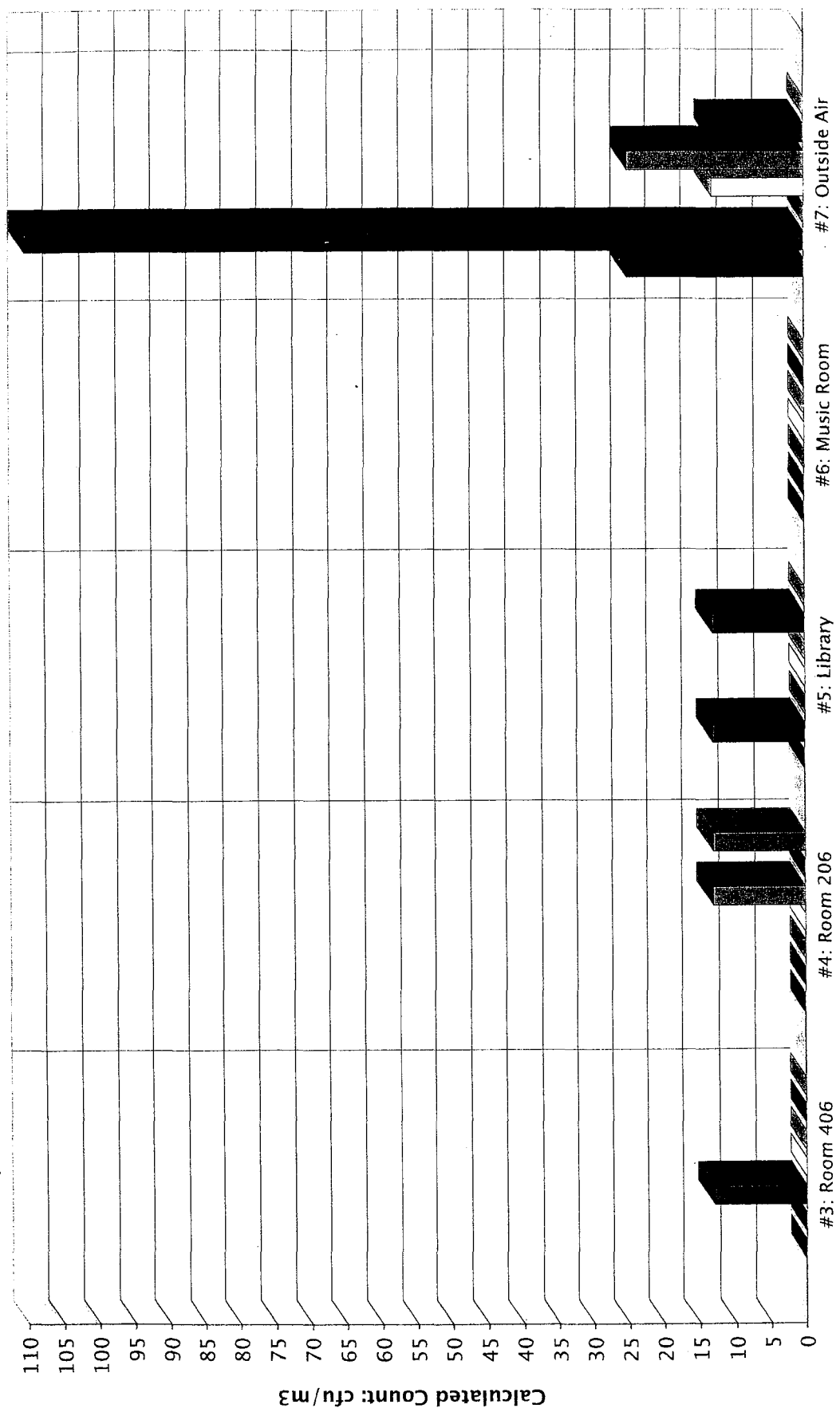
‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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

P&K Microbiology Services, Inc.

CULTURABLE AIR FUNGI REPORT

■ Basidiomycetes ■ Cladosporium ■ Epicoccum □ Eurotium ■ Non-sporulating fungi ■ Penicillium ■ Yeasts



Comments:

Note: Graphical output may understate the importance of certain "marker" genera.
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