

Indoor Air Quality Report of Findings



Prepared for:

Eastern York School District

150 Cool Creek Road

Wrightsville, PA 17368

August 30, 2018

Attn: Todd Hoover

Prepared by:

Airborne Contamination Identification
Associates, Ltd.

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Data Collected



- * Dates Sampled: August 27, 2018
- * Samples Collected by: Kyle Leaman
- * Sample Location: Eastern York School District Kreuz Creek 50 N. Lee St Hellam PA 17406
- * Equipment Used: Met One Model GT-526S Particle Counter Bio Test RCS Portable bio-aerosol Sampler. Vulcain SafetyPalm.

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

Spore Trap Data Collected from August 27, 2018



Location	Evaluation	Fungi CFU M ³
1- Left Front Library	Marginal	7,720
2- Right Front Library	Poor	10,680
3- Left Rear Library	Poor	51,200
4- Right Rear Library	Poor	64,026
5- Middle of Room Library	Poor	59,773
6- Outside Air	N/A	7,438

NOTES: The Fungi counts are in spores per cubic meter of air.

Recommendations



Airborne Contamination Identification Associates Ltd. has found the library to have a “marginal to poor” reading based on sampling completed August 27, 2018. ACIA Ltd. would recommend fogging of the space with Anabec Advanced Cleaning solution; along with wiping of the books with Anabec. The space should remain vacant during treatment, and smoke and fire detectors should be disabled. The space should be re-tested post treatment.

Regards,
Randall R. Leaman C.I.A.Q.P
Certified Indoor Air Quality Professional since 1996

Airborne Contamination Identification Associates Ltd.