



Indiana
Department
of
Health



Mike Braun
Governor

Lindsay M. Weaver, MD, FACEP
State Health Commissioner

October 15, 2026

JAM #684

Dr. Ryan Apple, Superintendent
Lanesville Community Schools
2725 Crestview Ave.
Lanesville, IN 47136

Dear Dr. Apple:

The purpose of this letter is to report on the results of our indoor air quality evaluation of Lanesville Community Schools conducted on September 28 and October 6th. This evaluation was conducted at the request of a concerned citizen to address health concerns related to indoor air quality in some areas of the school previously sampled by the Indiana Department of Health, as well as additional areas not sampled.

Due to paperwork issues, Indiana State Department of Health's Microbiological Laboratory (Laboratory) was unable to process the samples originally taken during the September 28 evaluation. Additional fungal and bacterial samples of the same areas were taken on October 6, at which time the Laboratory was able to successfully incubate and count the units. The colony forming units per cubic meter of air (CFU/M3) were computed taking the fungal or bacterial counts and dividing by the total volume of the sampled air. The indoor fungal (mold) and bacterial concentrations were lower or equal to the outdoor concentration. The only exception was the sample taken in Room 20 which showed a fast-growing Please refer to Table 1 for further details. There are no limits established as an acceptable concentration of fungal or bacterial counts indoors. There are guidelines that recommend lower fungal concentrations indoors than outdoors.

At the September 28 evaluation, Carbon dioxide (CO2) levels, relative humidity and temperature were measured in classrooms that had a concentration above 2000ppm during a previous evaluation, as well as new areas of concern.

To promote, protect and improve health and safety of all Hoosiers.



These levels were not measured again on October 6th as the schools were on fall break therefore no students were present in the building at that time and measurements would not have been reflective of that of an occupied classroom. Please refer to Table 2 for further details.

The CO₂ levels were measured with a range of 979 to the highest 2087 CO₂ per million parts of air (ppm) measured in Room 128. The School Indoor Air Quality rule, 410 IAC 33-4-2 states "(a) 'Outdoor Air shall be supplied to classrooms when occupied. (b) Carbon dioxide concentrations in the breathing zone shall never exceed 700ppm over the outdoor concentration, in this case giving a limit of 1184ppm. ASHRAE (American Society of Heating, Refrigeration, and Air Conditioning Engineers) recommends 15 cfm (cubic feet per minute) of outdoor air per person for classrooms.

The outdoor relative humidity on was measured at 49 percent (%) and the indoor relative humidity had a range of 51 to 57%. 410 IAC 33-4-4 sets the maximum relative humidity level in air-conditioned schools at 65% during periods of student occupancy. In the US EPA's publication "Mold Remediation in Schools and Commercial Buildings" they recommend maintaining a relative humidity level below 60% but ideally 30 – 50% if possible. Studies have shown that low relative humidity can cause dryness and irritation of the respiratory tract making individuals more susceptible to infections while high relative humidity levels can promote the growth of allergens such as dust mites or mold.

Temperatures inside the building ranged between 69 and 71 degrees. The School Indoor Air Quality Rule, 410 IAC 33-4-4 states "(b) Where provided, air-conditioning systems shall be capable of providing and shall be operated to maintain a temperature not to exceed seventy-eight (78) degrees Fahrenheit and sixty-five percent (65%) during periods of student occupancy."

Based on sample results and our visual inspection conducted on September 28, we note the following:

- 1) The carbon dioxide concentration in the library and Rooms 128 and 133 were measured above the allowed limit. 410 IAC 33-4-2(b) states "carbon dioxide concentrations in the breathing zone shall never exceed 700 ppm over the outdoor concentration". As these concentrations remain over the allowed limit, we recommend continuing investigation of the HVAC system to determine if it is working properly and to continue efforts to increase the outdoor air supplied to the rooms, so the carbon dioxide concentration remains below the limit.



Multiple studies published over the past several years have shown that elevated levels of carbon dioxide adversely affect cognitive function, ultimately affecting students' level of concentration and having a negative effect on test scores. In general, the studies show a minor impact at concentrations between 1000 to 2000 parts per million (ppm) but become significant once concentration exceeds 2000 ppm. As concentrations approach 2000 ppm, some individuals may experience symptoms including headaches or lethargy.

Based on samples and our visual inspection conducted on October 6 we note the following:

- 1) We did not see any visible signs of mold growth in the building, and our sample results did not indicate that there was an issue with mold growth.

410 IAC 33 requires you to respond within 60 days of any actions you take based upon this report.

The School Indoor Air Quality rule 410 IAC 33-6-2 requires this report, within 5 working days of receipt, to be posted for 14 days both at the school building stated in the report, and on the school's website, where it is accessible to students, parents, and employees. The rule also requires your response to this report to be posted within 5 working days of sending the response to us. That too is to be posted for 14 days. Please respond back providing the links where these are posted on the website.

Individuals experiencing health problems should seek medical advice from a physician. If you have questions, I can be reached at 317.682.9033.

Sincerely,

Judith Magaldi

Judith Magaldi

Indoor Air Industrial Hygienist

Indoor Air Section, Environmental Public Health

Enclosure



TABLE 1
Lanesville Community School Corporation
Computed Microbiological Air Sample Results
Taken October 6, 2026

Sample	Location	Occupants	Fungal cfu/m3	Bacterial cfu/m3
1	ROOM 119	-	60	0
2	LIBRARY	-	300	20
3	LIBRARY SMALL ROOM	-	380	20
4	ROOM 20	-	180	20
5	OUTDOOR	-	1760	20

TABLE 2
Lanesville Community School Corporation
Air Sample Results
Taken September 28, 2026

Sample	Location	Persons	Temp °F	RH %	CO2 ppm
1	ROOM 119	22	67	58	1147
2	LIBRARY	20	69	57	1279
3	LIBRARY SMALL ROOM	0	69	51	1098
4	ROOM 128	26	70	55	2087
5	ROOM 133	23	70	52	2004
6	ROOM 20	17	70	52	892
7	ROOM 40	24	71	51	979
8	OUTDOOR	0	74	49	484

Notes:

% percent

ppm — parts per million

CFU/M³—colony forming units per cubic meter of air



Welcome: Carrie Simler
My Roles: Security Administrator Enrollment

Member > Enroll New Member

Wednesday, October 21, 2026

Home
Employer
Member

Enroll New Member

Modify Member
Modify Inactive Member
Modify Fund Level Status
Bulk Upload Maintenance
Bulk Upload Enrollment
Member SSN Change
SSN Change Approval
Member Life Event Mgmt
Wage and Contribution
Administration
PERF Links
Employer Reports
EASI Portal

Member Enrollment Confirmed

ROBERT KLEEMAN has been enrolled successfully with Pension ID:001410236.

Teacher/Room	9/28/26 (AM)	9/28/26 (PM)	9/29/26 (AM)	9/29/26 (PM)	9/30/26 (AM)	9/30/26 (PM)	10/1/26 (AM)	10/1/26 (PM)	10/2/26 (AM)	10/2/26 (PM)
Acton 134	636	1263	577	1141						
Apple 110/266	570	820	537	1159	667	850	544	N/A	absent	absent
Barnickle 136	543	1703	1083	1515	806	1157	1201	1376	721	2410
Barr 162	780		540	1056	607	1010	564	840	694	1150
Boone 137	528	1785	549	1287	507	1677	592	1572	612	2498
Brumley Ag	509	3509	797							
Carver 129	absent	absent	515	1521	576	1448	725	1253	515	1993
Chuprinskaskas 125										
Clifford 126 (7-8 people max for 30 min 2x a day/ Clifford all day)	482	1647	584	1960	609	1810	590	1825	551	1567
Cox 105	584	1773	590	1778	581	2193	67	2521	800	1527
Dour 30	519	1705	509	1536	535	1267	535	1311	484	
Drexler 121	501	Left early	602	1206	735	1201	531	1215	494	1254
Dye 123	1540	2183	879	2052	477	2293	1525	2200	430	2020
Garlock 40	494	1877	476	2050	526	2620	493	2942	500	3357
Geswein 119	487	884	518	987	531	994	487	1032	524	
Goode 130	480	1580	516	1359	502	1619	1022			
Hampton 113	348	2330	506							
Hickerson 158	413	1350			516					
Hodge 20										
Holdridge 124										
Hopkins 101	508	1423	541	1519	625	944	562	881	529	
Hudson 10	551	1033	556	1004	573	1049	544	1223	500	1255
Hussung Elem Library	582	1100	542	1010	585	1305	708	1200	539	
Johnson 51	536	1330	565	1406	545	1402	523	1693	539	1292
Jones 267	827	1337	646	1465	673	2666	688	1623	695	1547
Klusmeier 268			568	2177	568	1293	660	1125	1317	
Kolkmeier 112										
Kramer 128										
Matthews 122	537	1194	515	739	521	1005	613		459	956
McLane 107										
Miller 161	896	1198	561	1194	826	680	1204	778	659	1274
Miller 109	1013	1029	503	1050	502	1043	500	1080	971	1137

Perkins 102	532									
Rawlings 106										
Sailor 108	530	978	532				821			
Reyes 132										
Sinex 50	551	1700	555	1133	587		582	2419		
Smith 133	499									
Steele 157 *Door is mainly open except when meeting with students and overnight.	372	1253	461	1425						
Sullivan 163	486	1198	AB	AB	517	1479	799	890	496	1183
Taurman 120	451	2622	441	2563	493	1962	702	1321	404	
Vierling 127										
Wagner 131	450	1320		1157	525	738	503	1466		
Wheeler 135		1302	700							
Baker H/S Library		1876	552	1464						1642