



Eric J. Holcomb
Governor

Lindsay M. Weaver, MD, FACEP
State Health Commissioner

May 8, 2024

99 RDC 581

Todd Terrill, Superintendent
Crown Point Community School Corp.
200 E. North Street
Crown Point, IN 46307

Dear Superintendent Terrill:

The purpose of this letter is to report the result of our indoor air quality evaluation of Taft Middle School on May 7th. This evaluation was based on a complaint our office received by a concerned citizen regarding previous and current water intrusion issues in the building. While on site we also took measurements for routine indoor air parameters. Those measurements are in Table 1.

We walked through all the hallways and entered many of the classrooms. No water leaks or stained ceiling tiles were observed in the building.

We visited the Robotics work room where in January a pipe separated, and a large amount of water was released into the area. This is the information the Director of Buildings and Grounds provided regarding this incident; "This incident happened in late January. We had a pipe become disconnected due to freezing and water leaked mainly into a work area for our Robotics program. This area is not a classroom. Water did venture into two nearby classrooms and into the hallway. Within 20 minutes of the incident, which happened after school and I happened to be on site, we had an outside contractor (Americlean) onsite to clean, clear the water, set up fans and remove debris. All of this was completed and cleared prior to school starting the next day. We had to do some cosmetic work to fix a few areas and replace some casework in the affected areas. No classes, students, or moving of rooms was needed. Although at the time this seemed like a large problem, it really wasn't that big of a deal. We had school as normal without fail."

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



We also requested that we be shown any other areas where there had previously been leaks. We were taken to both the end of the 6th grade hallway where it joins the main hallway and the end of the 8th grade hallway where it joins the main hallway. It was explained that in both instances an above ceiling HVAC unit was moving too much air causing condensation water to leak out of the units instead of being captured in the drain pans as designed. After determining the cause, adjustments were made to the HVAC settings for those units and there has been no issue since. As soon as the adjustments were made, the water damaged ceiling tiles were replaced.

The Carbon dioxide (CO₂) levels inside were measured with the highest reading 913 parts CO₂ per million parts of air (ppm) in room D21. 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 700 ppm over the outdoor concentration", in this case giving a limit of 1105 ppm. 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 was measured at 84 percent (%) with rain, and the indoor relative humidity had a range of 54 to 64%. The School Indoor Air rule, 6) 410 IAC 33-4-4 (b) states "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%) relative humidity during periods of student occupancy."

Based on our measurements and our visual inspection we note the following:

- 1) 410 IAC 33-4-6 (c) states "When a water leak or intrusion is discovered, corrective action shall be taken within forty-eight (48) hours. There are no current water intrusion issues in the building and no water stains on ceiling tile or walls. With the three previous issues, corrective action was taken well below the 48-hour requirement.
- 2) The complainant expressed concern that there is the possibility of mold growth due to these previous water issues. The prompt response in addressing these issues would avoid the possibility of mold growth.



- 3) The complainant also expressed concern regarding the possibility of legionella exposure from the previous water intrusion issues. Legionella amplification occurs over time, often in standing or recirculating water. Exposure occurs through breathing mist or fine airborne droplets of this water. The previous occurrences would not have supported this type of exposure.
- 4) The measurements for carbon dioxide, relative humidity and temperature were all within the allowed limits.

As no violations are noted in this report you are not required to send a response to us.

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. Please email me providing the link where this report is posted on the website.

Individuals experiencing any health problems should seek medical advice from a physician.

If you have questions, I can be reached at 317.682.9033.

Sincerely,

RON CLARK,
Industrial Hygienist
Indoor Air Section, Environmental Public Health

Enclosure



TABLE 1
Taft Middle School

Indoor Air Quality Measurements
Taken May 7, 2024

LOCATION	NO. OF OCCUPANTS	RELATIVE HUMIDITY	TEMP	CARBON DIOXIDE
Outside	---	84	64	405
End of 6 th grade hallway by main hallway *	0	61	69	571
Robotics work area 27 *	0	61	69	493
Middle of 7 th grade hallway	0	61	70	48
End of 8 th grade hallway by main hallway *	0	61	69	526
B-3	7	62	70	593
E-14	5	61	70	463
D-21	19	62	71	913
D-4	20	59	71	692
C-20	0	61	71	555
C-5	25	64	70	780
B-30	9	61	70	767
B-23	24	60	70	810
Main gym	1	54	70	422

Notes: * Areas where there had been previous water intrusion occurrences.

% -----percent

ppm-----parts per million

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

