

School/Facility: Ellicott Mills Middle

Location: Seminar 3, science 4, art, technology education, gymnasium/locker room, family consumer science, and classrooms 13, 15, 17, and 18.

Date of IEQ Report Form: February 27, 2017

Date(s) Investigated: March 10 and 15, 2017

Date of Report: May 11, 2017

IEQ Concern:

Parent expressing concern regarding their child's general health symptoms.

IEQ Investigation Process:

Identify deficiencies that may impact IEQ and/or sources of odor concerns. Typically includes the following depending on the nature of concern, but not limited to:

- interview/questionnaire of concern individual(s)
- inspection above drop ceiling (condition of roof deck, pipe insulation, return air plenum)
- inspection of ventilation system (operation of variable air volume box and outdoor air dampers, check controls, measurements of carbon dioxide, temperature and relative humidity, sources near outdoor air intake, measure return and supply air volume, cleanliness of coils, liner and condensate pan)
- inspection of exterior
- inspection below drop ceiling (housekeeping, sink and floor drain traps, signs of past and present moisture concern via visual and/or moisture meter, mold growth, ensure connection of current and capping of abandoned sanitary vents, odorizers, excessive plants and fabric items, identify potential pathways, and measure volatile organic compounds, carbon monoxide, and lighting)

Findings:

- The housekeeping of the technology education fabrication room was unacceptable. Piles of saw dust on floor and around equipment along and settled dust on horizontal surfaces were observed.
- Housekeeping could be improved on some surfaces and rooms:
 - Window blinds (science 4, seminar 3, and room 13).
 - Clutter (room 13, around teacher's corner in room 18).
 - Settled dust (room 13, moderate on file cabinet in room 18, small brown casework in room 17, science 4 on empty shelving).
 - Dust accumulation on and around air supply diffuser(s) in room 17.
- Brown water stained ceiling tiles were observed throughout:
 - Family Consumer Science (FACS) near washer and dryer.
 - Several observed in all associated technology education rooms and closets.

- Seminar 3 between sprinkler head and speaker.
 - Two bluish stains (not mold) in room 15
- Clay and plaster cloth wrap activities within the art room. Work surfaces appeared clean.
 - The floor drain trap in the art room was dried out.
 - A ceiling tile was missing within the art room storage closet (apparent pipe work above).
 - A Clorox Hard Surface cleaning bottle was observed in room 13.
 - The fan coil unit (FCU) was observed off in room 17.
 - The return air grille (ceiling) in room 17 had rust stains.
 - Fabric wall hangings were observed in room 17.

Corrective Actions:

- School administration is to inform custodial to ensure water (~ 5 gallons) is poured down the art room's floor drain at least monthly to prevent traps from drying out.
- School administration is to ensure the housekeeping of the technology education fabrication room is cleaned and that housekeeping is performed after each class to remove saw dust from floor, surfaces, and equipment.
- School administration is to inform custodial and teaching staff to address the above listed housekeeping deficiencies.
- School administration is to inform custodial staff to replace the ceiling tile in the art storage room if work above the drop ceiling is completed. Custodial staff may need to inquire with Building Services to make this determination.
- School administration is to inform staff and remove the Clorox Hard Surface cleaner from classroom 13. Use of HCPSS Custodial Services cleaning products is acceptable.
- School administration is to inform custodial staff to turn on the FCU in classroom 17. If operable, administration is to inform teaching staff not to turn off FCU. If not operable or turned off due to extreme discomfort, the school is to submit a work order to Building Services.
- School administration is to determine if the fabric wall hangings in classroom 17 are for educational purposes. If not, they are to be removed. If they are, ensure they are periodically cleaned (washed or vacuumed).
- Building Services evaluated, addressed, and changed out stained ceiling tiles:
 - FACS – old leak from drier vent.
 - Seminar 3 – contractor repaired sprinkler piping.

- Technology education – old leaks from ventilation equipment and tightened a fernco on a roof drain.
- Room 15 – not a roof leak with blue tint from roofing nails staining tile (no staining on back of tile, cause is thought to be students)