

**School/Facility:** Elkridge Landing Middle

**Location:** Room 202

**Date of IEQ Report Form:** June 22, 2017

**Date(s) Investigated:** Not Applicable

**Date of Report:** September 12, 2017

**IEQ Concern:**

An individual reported extreme thermal discomfort.

**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 concern was directed to Building Services and did not require an IEQ investigation performed by the Office of the Environment.

**Corrective Actions:**

- Work order 33999: Cooling coils of air handling unit 3 (AHU 3) was discharging higher air temperature than design. The interior of the coils regarded treatment adjustments, cleaning, and increased water head pressure. The variable air volume (VAV) box serving the room had control issues allowing the VAV to bypass using supply air from AHU 3 and instead use plenum (space between drop ceiling and roof deck) air which is much warmer. The controls were resolved and the VAV box calibrated.