

# Tolland School System

## TOOLS FOR SCHOOL

### 2019/2020 ANNUAL SUMMARY REPORT

**SCHOOL:** Tolland Middle School: One Falcon Way

March 16, 2020 Governor Lamont put State of Connecticut into quarantine due to pandemic declaration by WHO due to Coronavirus. Students transitioned to learning via virtual on line and students and staff remained home. Tolland Public Schools did not return to their respective physical school buildings for the 19/20 school year.

**TEAM MEMBERS:**

|                                               |                                       |
|-----------------------------------------------|---------------------------------------|
| Christine C. Grulke, M.S., R.N. - Coordinator | Mary Grande, Principal                |
| Joel Pattavina, Custodian                     | Mary Ann Hoke, Teacher                |
| Tony Spangle - Assistant Principal            | Scott Schneider: Teacher              |
| Chris White - Energy Manager                  | Peter Sztaba - Maintenance and parent |

**SCHOOL CENSUS:** 6<sup>th</sup> grade: 184 7<sup>th</sup> grade: 197 8<sup>th</sup> grade: 191 119 adults

**YEAR OF CONSTRUCTION:** Main building 1965; science addition 1966; auditorium/gymnasium/lunch room addition 1988; TMS moved to 1 Falcon Way Summer 2008; Conversion to City Water 2011; All asbestos floor tiles removed 2012; geothermal completed Fall 2015

Tools for Schools Team met: September 26, 2019; January 2020 TMS Survey completed; February 13, 2020, April 9, 2020 TMS Walk About Assessment; May 14, 2020.

March 17, 2016: District Wide DPH Tools for Schools Refresher Course hosted by Kenney Foscue

#### **GOAL ACHIEVEMENTS/ACCOMPLISHMENTS FOR YEAR 2019/2020:**

##### **2019/2020 Recommendations**

##### **Short Term Goals:**

~~Roof Replacement (not Auditorium section) done Su 2019 – monitor for leaks not completed due budget/bid~~  
~~TMS Sky lights and window, doors replacement Su 2019 and 19/20 school year – monitor for leaks not completed due to budget/bid~~

Summer month IAQ maintenance of band and auditorium to prevent mold issues: Maintenance to monitor and treat to prevent mold. May include a/c or dehumidifier Air Quality Tools for Schools Summer tips.

*“Schools in humid climates that are close up over the summer may need to keep ventilation running And monitor humidity levels within the building to a level below 60%. Also, a weekly check for Mold growth (sight and smell) is a good practice.”*

Monitor for mice activity Room 14 & 16

Plan abbreviated IAQ survey for January 2020: 87 surveys sent; 53 returned: 61% return

Continue to report TFS at Safety meeting.

##### **Medium Term Goals:**

Increase membership participation in walk around: Not achieved. Walkabout Assessment not completed due to mandated quarantine for Covid-19.

##### **Long Term Goals:**

Su 2019: Radon Testing for One Falcon Way due 2021. (Completed spring 2006, 2011, 2016); per Connecticut Department of Health School Radon Testing Guidance Connecticut General Statute Section 10-220 (d) “...and every five years thereafter... “

## INTERIOR INSPECTION:

### Thermal

- 94% feel Temp/humidity comfortable
- 5 complaints of being cold - given thermometer for 3 days - range between 68-72 in all rooms.
- Complaints of dryness: humidity level 22-30% in winter

Walk Around Observations: TMS TFS IAQ Walkaround Scheduled April 9, 2020 did not occur due to mandated quarantine per Governor Lamont due to Covid-19 Coronavirus pandemic declared March 2020.  
Notes below were made prior to pandemic;

*Thermal regulation: Geothermal unit working, air circulation in summer improved in non-air conditioned areas*

*Windows & doors are closed during heating season*

*Blinds open to take advantage of natural lighting when possible*

*Blinds closed when direct sunlight enters rooms during summer*

*Humidity during winter months <20%. Constant air movement with geothermal has staff complaining of nose bleed, dry eyes, sinus issues; this is not a change from the forced hot air heat we use to have.*

*Humidity during summer/fall months above 50% geothermal/a/c and air movement eliminated mold growth noted in auditorium su 2013, 2014, 2018.*

### Ventilation System:

- 98% feel Air flowing as designed
- 97% felt room is free of objectionable odors:
  - 1 responders comment that the unit is noisy - db readings <90 db allowed by OSHA
  - 1 office responder no geothermal; passive airflow discussed
  - Monitoring 2 rooms for teacher symptoms

Walk Around Observations: TMS TFS IAQ Walk around Scheduled April 9, 2020 did not occur due to mandated quarantine per Governor Lamont due to Covid-19 Coronavirus pandemic declared March 2020.  
Notes below were made prior to pandemic;

*Pleasant aroma noted in hallways..*

*4 Air purifiers: Room 17, Room 217, Girls locker room; only functioning in 217*

- 96% felt no signs of mold or mildew growth
  - Monitoring ceiling tiles room 10 and guidance office

Walk Around Observations: TMS TFS IAQ Walk around Scheduled April 9, 2020 did not occur due to mandated quarantine per Governor Lamont due to Covid-19 Coronavirus pandemic declared March 2020.  
Notes below were made prior to pandemic;

*Girl's locker room: Dehumidifier not running in rear storage room;*

*Boy's locker room: Dehumidifier not running in rear storage room or office;*

*Band room: dehumidifier runs during summer*

*Negative pressure in school:*

*No Sewer aroma noted to restroom*

## General Cleanliness:

- ⊖ **73% felt area generally clean (14 staff members). Comments: “need to dust; office need vacuuming regularly; need to mop. “**

All uneaten food/snacks stored in properly sealed containers.

Exit vents cleaned annually by custodians, Unit Ventilator filters change August, December and April.

Walk Around Observations: *TMS TFS IAQ Walk around\_Scheduled April 9, 2020 did not occur due to mandated quarantine per Governor Lamont due to Covid-19 Coronavirus pandemic declared March 2020. Notes below were made prior to pandemic;*

*2013 Installed NonAsbestos flooring scratched and finish worn off*

*Classrooms ready for cleaning with chairs up*

*Library: carpet and couch noted source of dust/mold*

*Numerous classroom windows without screens*

*Gymnasium wall mats intact and available for collision control*

- **5 areas have evidence of evidence of pests: (mice, bees, ants) - Richland Pest Control handles**
  - Mice noted Room 11, 12, 14, 16 and 17
  - Spider mites noted Office 3 early May (pretreated May 2020 and averted influx)
  - Locker clean out prior to week vacations helps reduce locker storage of food.
  - Food storage in sealed containers -
  - Dirty dishes in sink room 14,16 monitored
  - Kitchen area all items wrapped in plastic or in sealed cans.
  - Teacher Lounge table tops and microwave cleanliness improved and has not been noted in Richland visits
  - Richland prompt visits to address pest complaints noted in minutes:

Walk Around Results: *TMS TFS IAQ Walk around\_Scheduled April 9, 2020 did not occur due to mandated quarantine per Governor Lamont due to Covid-19 Coronavirus pandemic declared March 2020*

- **100% store food in a tightly sealed container**

Walk Around results *TMS TFS IAQ Walk around\_Scheduled April 9, 2020 did not occur due to mandated quarantine per Governor Lamont due to Covid-19 Coronavirus pandemic declared March 2020*

- **100% fill “u” joint with water weekly or it is n/a**

- **100% have unit ventilators and vent ducts free of obstruction**

- 6 air purifiers: room 105, 17, Girl’s locker room, 217, and band room. Room 10 was gifted an air purifier
- Outer filters changed December, March and June
- Inner filters changed annually or every 3 years per unit utilized

- **Staff utilizing only custodian provided “green cleaners”**

- **Staff documented that needed fixed: 10 items entered into School Dude repaired promptly and are closed items**

## EXTERIOR/OUTDOOR INSPECTION:

### Ground Level

Tolland Middle School was built in 3 sections: Main school 1965; science addition in 1966; and auditorium addition in 1988. Asbestos flooring removed summer 2011

School entry floor mats removable and are cleaned and air-dried with season moisture.

"No Idling" signs are were replaced along front, rear and loading dock

Geothermal completed Fall 2015

*Walk Around Observations: TMS TFS IAQ Walk around\_Scheduled April 9, 2020 did not occur due to mandated quarantine per Governor Lamont due to Covid-19 Coronavirus pandemic declared March 2020. Notes below were made prior to pandemic;*

*Foundation intact- no leaking noted*

*No water ponding noted within 50 feet of school- water drainage in rear of building flowing parking lot repaved fall 2011*

*"No Idling" signage on school property*

**Roof:**            *Roof to be replaced Su 2020 not assessed -*

**Penthouse**      *Not assessed*

**Miscellaneous:**    *Dumpster lids close, No smoking sign present -*

### **2021/2021 Recommendations**

#### Short Term Goals:

- Sp 2021: Radon Testing for One Falcon Way due 2021. (Completed spring 2006, 2011, 2016); per Connecticut Department of Health School Radon Testing Guidance Connecticut General Statute Section 10-220 (d) "...and every five years thereafter... "
- Roof Replacement (not Auditorium section) done Sp/Su 2020 - monitor for leaks:
- TMS Sky lights and window, doors replacement Su 2020 - monitor for leaks-
- Summer month IAQ maintenance of band and auditorium to prevent mold issues: Maintenance to monitor and treat to prevent mold. May include a/c or dehumidifier - summer issue with humidity and carpet in auditorium cleaned
- Monitor for mice activity Room 14 &16
- Plan abbreviated IAQ survey for January 2021
- Continue to report TFS at Safety meeting - next meeting November 9<sup>th</sup> at 2:15 at TIS - Pete Sztaba Coordinator

#### Medium Term Goals:

Increase membership participation in walk around:

#### Long Term Goals:

Su 2026: Radon Testing for One Falcon Way due 2021. (Completed spring 2006, 2011, 2016); per Connecticut Department of Health School Radon Testing Guidance Connecticut General Statute Section 10-220 (d) "...and every five years thereafter... "

Respectfully Submitted,

*Christine Grulke RN*

Christine C. Grulke, M.S., R.N., N.C.S.N.

Tolland Middle School

Tools for Schools Indoor Air Quality Coordinator