

Tolland School System

TOOLS FOR SCHOOL

2018/2019 ANNUAL REPORT

SCHOOL: Tolland High School: One Eagle Hill

TEAM MEMBERS: Dominique Fox – Principal & Coordinator
Brian Bard, Head Custodian
Mike Carpenter, Technical Education Teacher
Cindy Davidson, R.N., School Nurse
Mitch Egazarian, Business Education Teacher
Sue Fontaine, Science Teacher/TALC Coordinator
Sue Keane – Parent/Secretary
Beth Penney - Technical Education Teacher
Peter Sztaba – Director of Maintenance
Chris White – Energy Manager

SCHOOL CENSUS: 9th grade: 190; 10th grade: 218; 11th grade: 202; 12th grade: 193
127 adults (including cafeteria, maintenance personnel, district staff housed at THS, and SROs)

YEAR OF CONSTRUCTION: 2006

GOAL ACHIEVEMENTS/ACCOMPLISHMENTS FOR YEAR 2015/2016:

Team met two times: Winter 2018 and Spring 2019
Principal and school secretary meet quarterly prior to District Safety Committee meeting
Survey Completed: April 29, 2019 - May 10, 2019
Walk About Assessment: May 17, 2018 (Exterior) & May 17, 2018 (Interior)

2018/2019 Goals Update

Short Term Goals:

Continue leaving the air conditioning on for the summer months in both the band room and auditorium to prevent mold issues per EPA New England Indoor and Air Quality Tools for Schools Summer tips. - **Completed**
“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.”
Utilize of perimeter spray in working with Richland Pest Control to further keep pests and insects out of building – **Completed**
Increase filtration capacity in cafeteria and gym - **Completed**
Due to the retirement of one of our members and in an effort to increase the diversity of our membership, add an additional committee member outside the science department through the inclusion of either a paraprofessional or another teacher. - **Completed**

Medium Term Goals:

Continue to report TFS at Safety meeting. - **Completed**
Replace carpet in main entrance foyer - **To be completed during the summer of 2019**
Improve positive responses for general cleanliness questions:

- Question #1: Is your room clean? - **Completed**
 - 2016-2017; 15 Yes (29%) 9 No (17%) 30 Sometimes (56%)
 - 2017-2018; 18 Yes (32%) 6 No (11%) 33 Sometimes (58%)
 - 2018-2019; 22 Yes (37%) 6 No (??) 21 Sometimes (53%)

- Question #2: Is your room dusted and vacuumed thoroughly and regularly? - **Not met**
 - 2016-2017; 3 Yes (6%) 39 No (72%) 12 Sometimes (22%)
 - 2017-2018; 6 Yes (11%) 35 No (61%) 16 Sometimes (28%)
 - 2018-2019; 4 Yes (7%) 38 No (64%) 17 Sometimes (29%)
- Question #3: Is trash removed daily? - **Completed**
 - 2017-2018; 48 Yes (86%) 1 No (2%) 7 Sometimes (13%)
 - 2018-2019; 53 Yes (90%) 1 No (2%) 5 Sometimes (9%)

Long Term Goals:

Develop custodial checklists to ensure cleaning is being completed in a consistent fashion. – **Not completed**
 Replace CO2 sensors across all classrooms - **Not completed**

Thermal

- August 2018 - October 2018 - There continues to be numerous teacher and staff complaints regarding the hot temperatures in classrooms.
- November 2018 - March 2019 – There continues to be numerous teacher and staff complaints regarding extreme temperatures in classrooms. These include both hot and cold temperatures. No pattern has been observed with respect to extreme temperature fluctuations in classrooms on the first or second floor in the academic wing or in the technical wing.
- Thermal regulations are in place for both classrooms and hallways and are monitored by the Director of Maintenance.
- Returns are dirty/dusty and need to be vacuumed twice per year.
- Question #32: Is the temperature in your room generally between 72 and 76 degrees Fahrenheit?
 - 2016-2017; 20 Yes (37%) 34 No (63%)
 - 2017-2018; 27 Yes (47%) 30 No (53%)
 - 2018-2019; 27 Yes (46%) 32 No (54%)
- Question #35: Is humidity acceptable? >60% is too high, <30% is too low
 - 2016-2017; 41 Yes (79%) 11 No (21%)
 - 2017-2018; 44 Yes (77%) 13 No (23%)
 - 2018-2019; 51 Yes (88%) 7 No (12%)
- Question #36: Is the room comfortable?
 - 2016-2017; 25 Yes (46%) 29 No (54%)
 - 2017-2018; 33 Yes (58%) 24 No (42%)
 - 2018-2019; 35 Yes (59%) 24 No (41%)
- Staff comments:
 - My room is too hot when the weather gets warm.
 - My office is FREEZING all year and is so uncomfortable.
 - Temperature fluctuates drastically throughout the block/day.
 - The temperature is ridiculous. It can be freezing and then hot. It is never just normal
 - Students often complain that it is cold in this room
 - Swings in temperature, can be very warm or cold. (The air is always blowing.)
 - The temperature varies on a daily basis in most of the Business Department classrooms regardless of thermostat settings.

Walk Around Observations (Thermal):

- On walk around: comfortable to group walking around
- 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 months

Ventilation System:

- Unit ventilators cleaned annually by custodians

- Unit ventilator filters were changed and bearings lubed in August, December, and April.
- Only two to three incidents this school year of gas smell in Room 93 and professional kitchen area.
- Minimal complaints regarding odors in classrooms between August 2018 - June 2019.
- Staff encouraged to keep food items in airtight containers
- No students sent home with asthma, nausea, vomiting, headaches, and dizziness due to air quality issues.
- Question #47: Do you smell mold or mildew in your room?
 - 2016-2017; 0 Yes (0%) 1 From plants in courtyard (2%) 50 No (96%) 1 Sometimes (2%)
 - 2017-2018; 2 Yes (4%) 1 Yes from exterior (2%) 1 Definite mildew/mold smell in elevator adjacent to room (2%) 49 No (89%) 1 Sometimes smells musty (2%) 1 Sometimes it smells musty in the morning (2%) 1 From plants in courtyard (2%)
 - 2018-2019; 1 Yes (2%) 1 During humid days (2%) 54 No (96%)

Walk Around Observations (Ventilation System):

- Vents have extensive dust and must be vacuumed at least twice per year.
- Excessive amounts of visible dust on ledges in stairwells.
- All girls and boys restrooms have very dusty air vents.

Moisture Concerns:

- Question #20: Traps can become a problem when water in the trap evaporates due to infrequent use, allowing sewer gases to enter the room. Are drain traps filled regularly?
 - 2016-2017; 7 Yes (13%) 6 No (11%) N/A 41(76%)
 - 2017-2018; 11 Yes (19%) 1 No (2%) N/A 45(79%)
 - 2018-2019; 10 Yes (17%) 2 No (3%) N/A 47 (80%)
- Question #21: Is water poured down floor drains once per week?
 - 2016-2017; 2 Yes (4%) 10 No (19%) N/A 42(78%)
 - 2017-2018; 10 Yes (18%) 2 No (4%) N/A 43(78%)
 - 2018-2019; 10 Yes (17%) 1 No (2%) N/A 48 (81%)
- Question #30: Are ceiling tiles or walls leak free? Discoloration may indicate periodic leaks.
 - 2016-2017; 44 Yes (82%) 10 No (19%)
 - 2017-2018; 48 Yes (84%) 9 No (16%)
 - 2018-2019; 46 Yes (78%) 13 No (22%)
- Staff comments:
 - There is black dust (maybe mold?) around all of the ceiling tiles in our suite
 - Yes, the black ceiling tiles
 - There are no discolored tiles at this point, as they have been replaced. When AC is on during humid weather, some discoloration/dripping of pipes occurs.
 - In the hallway outside of my door there are ceiling tiles that are discolored.
 - No, but tiles are not replaced quickly if they do have issues.
 - Condensation during warm months especially during humid days.
 - My room often smells of mold.

Walk Around Observations (Moisture Concerns):

- Ceiling tiles stained
 - Outside bathroom across from cafeteria
 - World Language Laboratory
 - Girls and boys bathroom near stairwells C4, C5, and A1
 - Outside Room 215
 - Science hallway near women's room and between rooms 214-225
 - Library Computer Lab
 - Above stacks on the left side of the Library Media Center
 - Across from Room 24B

- Across from Room 107
- Boys and girls bathroom across from 101
- Green stuff on ceiling tiles near Rooms 117 and 218
- 4 missing ceiling tiles across from Room 41

General Cleanliness:

- See medium term goals above for Question #1 and #2 results.
- Richland Pest Control continues to handle all areas where evidence of pests exist
- Noted medical concerns
 - Students diagnosed with asthma 216/803 (27%)
 - 16 students have inhalers in the nurse's office
 - 32 students have permission to carry inhalers in school
 - 4 students who are insulin dependent diabetics, one staff member
 - 4 people immuno-compromised, on chemotherapy
 - 24 cases of Flu syndrome
- Staff utilizing only custodian provided "green cleaners"
 - No non-green cleaners seen during walk about when cabinets/under sinks checked
- Question #5: Is animal food stored tightly in sealed containers?
 - 2016-2017; 4 Yes (7%) 5 No (9.3%) 45 N/A (83%)
 - 2017-2018; 2 Yes (4%) 6 No (11%) 49 N/A (86%)
 - 2018-2019; 3 Yes (5%) 11 No (19%) 45 N/A (76%)
- Question #6: Is room free of pests?
 - 2016-2017; 48 Yes (89%) 6 No (11%)
 - 2017-2018; 54 Yes (95%) 3 No (5%)
 - 2018-2019; 48 Yes (81%) 11 No (19%)
- Staff comments
 - Not as clean as in the past
 - The gym floors are not cleaned regularly and the PE office floors are not cleaned.
 - I sometimes clean my room myself but if I ask the custodian to do something specific, he always does.
 - Rooms could be dusted more often.
 - Room is RARELY swept; never mopped; spills are not cleaned.
 - Rooms are not swept daily. Shelving and surfaces (non-desks) are not cleaned. Student desks are not wiped down. Floors are not mopped on a regular basis (ever????).

Walk Around Observations (General Cleanliness):

- Stairwells are very dirty and dusty. This includes railings, radiators, windows, ventilators, ledges, etc.
- Trash is visible on ledges of stairwells.
- Hallways and classrooms are dusty
- Water fountains are very dusty and not clean.
- Under sinks in bathroom are not clean.
- Classrooms do not appear to have been mopped in some time.

INTERIOR INSPECTION:

Carpets

- School entry floor mats at front and main entrance are removable and are cleaned on a yearly basis.

Ceiling Tiles

- Discolored - see above under Moisture Concerns

Walls, Tiles, and Floors

- Floor tiles
 - Cracks in vinyl composition tile
 - In hallway near 52B
 - Rooms 57 (near Sprinkler Room), 61, 62, 65 (near bathroom), and outside Room 80
 - Hallway leading to Room 93
 - Lengthy crack on first floor in English hallway outside Stairwell and Rooms 101, 110, and 112
 - Outside rooms 124, 126, 133, and 135
 - Room 150
 - Room 232
 - Room 248
 - Discolored floor tiles across from stairwell A1, Room 57
- Stone tiles
 - A significant number of stone tiles in the main hallway area are cracked
- Walls
 - Large settling crack near Rooms 24, 52B, 119, 121, and 133
 - Chips in blocks opposite weight room
- Paint peeling
 - Stairwell A1 support beam
 - Stairwell A2 to right of large window on larger corner support beam
 - Girls bathroom across from Cafeteria above stalls to the left

Elevator

- As noted in last year's report, tracks need to be cleaned.

Miscellaneous Walk Around Observations (Interior):

- Cafeteria:
 - Outlet cover missing for ethernet on Perseverance pillar
 - Two pillars (Integrity and Engagement) are no longer aligned
 - Vent going down hallway is extremely dusty
- Faculty Dining Room:
 - Rust on both heating units
- Kitchen:
 - Cleaning supplies (bleach and ammonia) separated
 - Food away from cleaning supplies
 - All food in air tight containers
- Stairwells
 - Stair skirt needs to be cleaned more regularly
 - Radiators need to be dusted more regularly
 - Windows sills need to be dusted more regularly
- Library
 - Computer lab – Floors are not cleaned on a regular basis
- Auxiliary Gym
 - Large hole in cinder blocks
- Question #75: Are the locker rooms cleaned regularly and properly?
 - 2016-2017; 2 Yes (4%) 0 No (0%) 51 N/A (96%)
 - 2017-2018; 4 Yes (7%) 0 No (0%) 51 N/A (93%)
 - 2018-2019; 4 Yes (7%) 1 No (2%) 54 N/A (92%)
- Custodial closets
 - Noted to be tidy
 - Supplies in original bottles
 - Chemicals in appropriate labeled bottles
 - Rinsing areas are dry and no active dripping of water

- No battery storage noted
- Aroma clean, no must/mildew noted.

EXTERIOR INSPECTION:

Ground Level – General Comments

- Tolland High School was built in 2006.
- Richland Pest Control sprayed during in April in an effort to keep pests and insects out of building.
- “No parking/standing” signs are installed at front and rear entrances as well as at the loading dock.

Parking Lot/Sidewalks:

- Signage placed on emergency fire lane in rear of school
- Lines in parking lot repainted in 2018
- Grout between sidewalk in front and rear of building continues to worsen
- Minimal curbing/sidewalk damage in front of building remains as much of it was repaired in 2016

Roof:

- No ponding around air vents noted
- No tree branches resting on roof
- Intakes free of debris
- Plumbing stacks 10 feet away from outdoor air intakes
- Roof appears intact
- Skylight flashings intact
- Six breaks in lightning protection

Front & Rear Entrance to Building:

- Trash cans are rusted, dented, and damaged

Rear Loading Dock:

- Some damage noted

Front Loading Dock:

- Minor stair damage

Miscellaneous Walk-Around Observations (Exterior):

- Foundation intact – no leaking noted
- No water ponding noted within 50 feet of school
- Playground
 - Cinder block damage near playground
- Greenhouse
 - Corner of greenhouse damaged
 - Windows are discolored
 - Moisture on bricks and under cinder blocks
- Live and dormant bees and mud wasps’ nests outside various rooms (Rooms 34, 115, Large nest inside ventilation unit near greenhouse, and Stairwell C5)
- Missing screen on drainage pipe from roof outside rear entrance
- Gasket/Spline needs to be repaired outside Rooms 34, 47, 57, and 113
- Window trim on front of library has moved upwards
- Screens
 - Screen missing - Room 54
 - Screen damage - Rooms 34, 57, and 235
 - Tabs missing - Rooms 34, 47, 59, and 133

- Windows
 - Broken window - Room 57
 - Major damage to window sill - Room 135
- 3 Awning covers over windows for Room 47 are missing
- Moss replacing grout
 - On top of brick below cinder block in rear of school
- Rust concerns
 - Dust collection system outside Room 59
 - Base of Room 85 Preschool entrance door
- Grout/mortar
 - Window area in main entrance on office windows
 - Windows in front of building to the right of the main entrance
 - Large brick puncture outside near Rooms 77 and 79
 - Below windows in Rooms 133 and 135
 - Near dust collector outside near Room 59 - Damaged mortar on wall cap of privacy wall; also contains mold
- Dryer vent flap missing outside Room 77

2019/2020 Recommendations:

Short Term Goals:

Improve general cleanliness, particularly focusing on stairwells.

Plan abbreviated IAQ survey for January 2019 on general cleanliness and other areas of concerns.

Continue to report TFS at Safety meeting.

Due to the retirement of one of our members and in an effort to increase the diversity of our membership, add an additional committee member outside the science department through the inclusion of either a paraprofessional or another teacher.

Medium Term Goals:

Replace carpet in elevator with another type of material.

Ensure Material Safety Data Sheets are on hand in rooms where appropriate

Long Term Goals:

Develop custodial checklists to ensure cleaning is being completed in a consistent fashion.

Respectfully Submitted,

Dominique Fox

Dominique Fox, Principal

Tolland High School

Tools for Schools Indoor Air Quality Coordinator