THE SCHOOL BOARD OF BROWARD COUNTY, FLORIDA ENVIRONMENTAL HEALTH & SAFETY DEPARTMENT

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May 12, 2017	Signature on File	For Custodial Supervisor Use Only
TO:	Dr. Tracy Jackson, Principal	Custodial Issues Addressed
	Collins Elementary	Custodial Issues Not Addressed
FROM:	Alison Witoshynsky, Project Manager Environmental Health & Safety Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On May 11, 2017, I conducted an assessment at **Collins Elementary School.** Attached are findings and recommendations for further assessment, remediation, or corrective actions needed.

The IAQ assessment did identify one or more existing conditions impacting IAQ and has generated appropriate work orders to correct deficiencies in systems and maintenance that could contribute to decreased indoor air quality. At the time of the assessment, these concerns were not an immediate health or safety concern to building occupants. However, due to individual sensitivities and predisposing health factors, it is possible that some building occupants may elicit a health response to agents and / or conditions identified during the evaluation. Therefore, to further improve IAQ, prevent development of future IAQ-related problems, and to reduce the potential for IAQ-related complaints by building occupants, the IAQ Assessment Team recommends appropriate follow up of each item identified and listed in the attached evaluation.

Please ensure that your Head Facilities Serviceperson receives a copy of this correspondence so that the recommendations requiring their attention can be addressed. In an attempt to separate IAQ issues from general maintenance items, the attached assessment may contain direction for site based staff to generate a work order through COMPASS. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all site based custodial issues have been appropriately addressed.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact us at 754-321-4200.

AW:smn Enc.

cc: Shelley Meloni, Director, Pre-Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Broward Teachers Union Federation of Public Employees Gerald Devio, Supervisor II Custodial Benjamin Osborne, Supervisor II Custodial Mark Murray, Supervisor II Custodial Sam Bays, Director, Maintenance Operations Kurt Wirz, Area Manager Trades

	IAQ Assessm	nent	
Colli	ns Elementary Evaluation Date	May 11, 2017	Time of Day 12:15
Outdoor Conditions Temp	erature 83.1 Relative	Humidity 69.4	Ambient CO2 451
		Range CO ² 60% 1949	
Noticeable Odor Yes Ceiling Tectum	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Walls Plaster/Tack Board	=	No	
Floor 12" x 12" Vinyl	Yes	No	from refrigerator
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean	No	HVAC Return Grills Clean No
Flooring Clean No	Inside of Supply Duct Clean	No	Inside of Return N/A Duct Clean
Room Surfaces No Clean	Ceiling at Supply Grills Clean	N/a	
Trash Removed No	Exhaust Fans Working	Yes	Unapproved Chemicals / No
Signs of Pests No	Drain Traps Wet	Yes	Air Fresheners No
Room Cluttered Yes	Food if Stored in Room is in Sealed Containers	N/A	in Room
Mechanical Equipment Locatio	n Floor unit in classroom		Mechanical Room Clean N/A
Filters Installed Properly	Filters Clean	Νο	Inside of HVAC Unit Clean No
Condensate Pan Clean	VA Cooling Coil Clean	Yes	
Fresh Air Intake Location	Ducted Pre-treatment system	▼	Fresh Air Intake Free Yes
Pollutant Sources Near Air Intake	Νο	▼	
Observations			

Classroom is very cluttered, cardboard boxes. Two (2) area rugs in room, dirty, stained, dirt underneath. Blinds clean, but window sill has debris and dust on horizontal and elevated surfaces throughout. A small refrigerator is present and looks like it may have leaked at one time, floor has rusty stains. Floor is very dirty throughout. Sweet odor upon entry, could not locate source. Fresh air supply and bathroom exhaust grills dusty.

Corrective Actions to be Completed by Site Based Staff

eplace, date A/C Filters	R
ccupant to reduce clutter	Enc
ve cardboard boxes ▼	
plastic containers with lids	Store
or thoroughly cleaning area rug	Consider re
faces and sanitize flooring	Clean
& Supply Grills with Wexcide	Clean E
▼	

Repair HVAC to Reduce Humidity Levels
Repair HVAC to Reduce CO2 Levels
Evaluate fresh air damper at HVAC
Clean entire HVAC system

	IAQ Assessr	nent	
C	Collins Elementary Evaluation Date	e May 11, 2017	Time of Day 12:15
Outdoor Conditions Te	mperature 83.1 Relative	Humidity 69.4	Ambient CO2 451
FishTemperature60676.9		Range CO ² % - 60% 1249	
Noticeable OdorNoCeilingTectumWallsPlaster/Tack Bo	staining?	Visible microbial growth? No No	Amount of material affected stain above 1st AC
Floor 12" x 12" Viny	Yes	No	
Ceiling CleanNoWalls CleanYesFlooring CleanNoRoom SurfacesNoCleanNo	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	Yes No N/a	HVAC Return Grills Clean No Inside of Return Duct Clean No
Trash RemovedNoSigns of PestsNoRoom ClutteredYes	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes Yes N/A	Unapproved Chemicals / Cleaners in Room No Air Fresheners No in Room
Mechanical Equipment Loca	ation Floor unit in classroom		Mechanical Room Clean N/A
Filters Installed Properly	Yes Filters Clean		Inside of HVAC Unit Clean No
Condensate Pan Clean	N/A Cooling Coil Clean	Yes	
Fresh Air Intake Location Pollutant Sources Near Air Intake	Ducted Pre-treatment system	▼ ▼	Fresh Air Intake Free Yes
Observations			

Classroom is somewhat cluttered with books and other supplies. Four (4) area rugs in room, dirty, stained, dirt underneath. Sink is clogged. Blinds clean, but window sill has debris and dust on horizontal and elevated surfaces throughout. Floor is dirty throughout. Fresh air supply and bathroom exhaust grills dusty. Teacher reports kids complain room is cold, but teachers are warm. No inside allergen symptoms reported by teachers.

Corrective Actions to be Completed by Site Based Staff

Remove, replace, date A/C Filters	▼	
Encourage occupant to reduce clutter	▼	
Store items in plastic containers with lids	▼	
Consider removing or thoroughly cleaning area rug	▼	
Clean ALL surfaces and sanitize flooring	▼	
Clean Exhaust & Supply Grills with Wexcide	▼	
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lity Levels 🛛 🔻	Repair HVAC to Reduce Humi
2 Levels ▼	Repair HVAC to Reduce CC
oor HVAC 🛛 🔻	Evaluate fresh air damper at f
em 🔻	Clean entire HVAC sys
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IAQ Assessment	
Collins Elementary Evaluation Date May 11, 2017 Ti	ime of Day 12:15
Outdoor Conditions Temperature 83.1 Relative Humidity 69.4 A	Ambient CO2 451
FishTemperatureRangeRelative HumidityRangeCO270878.172 - 7848.230% - 60%4736	Range# OccupantsMAX 700 >16Ambient
Noticeable Odor No Visible water damage / staining? Visible microbial growth? Ceiling Tectum Yes No 1 la Walls Plaster/Tack Board No No 1 Floor 12" x 12" Vinyl No No Image: staining in the staining in	Amount of material affected arge stain, 2 smaller stains
Ceiling CleanYesHVAC Supply Grills CleanNoWalls CleanYesInside of Supply Duct CleanYesFlooring CleanYesCeiling at Supply Grills CleanYes	HVAC Return Grills Clean No Inside of Return Duct Clean No
Signs of Pests No Drain Traps Wet Yes Air Air	proved Chemicals / ners in Room No Fresheners No Room
	anical Room Clean N/A of HVAC Unit Clean No
	esh Air Intake Free Yes Yes
Observations	

Classroom is cluttered with books and other supplies. One (1) area rug in room, dirty, stained, dirt underneath. Blinds clean, but window sill has debris and dust on horizontal and elevated surfaces throughout. Floor is dirty/dusty in corners. Crack observed in ceiling concrete (near beam and hallway wall). Floor HVAC unit (back of room) is cool/adequate temperature close to the unit, but temperature increases as move away.

Corrective Actions to be Completed by Site Based Staff

• •	
Remove, replace, date A/C Filters	▼
Encourage occupant to reduce clutter	▼
Remove cardboard boxes	▼
Store items in plastic containers with lids	▼
Consider removing or thoroughly cleaning area rug	▼
Clean horizontal/elevated surfaces	▼
Clean Exhaust & Supply Grills with Wexcide	▼
	▼

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D2 Levels ▼	Repair HVAC to Reduce C
degrees v	Set Temperature to 72 - 7
Floor HVAC	Evaluate fresh air damper at
ained ceiling	Evaluate and repair cause of a
stem 🔻	Clean entire HVAC sy
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IAQ Asses	ssment		
Collins Elementary Evaluation	Date May 11, 2017	Time of Day 12	2:15
Outdoor Conditions Temperature 83.1 Relat	tive Humidity 69.4	Ambient CO2 45	1
FishTemperatureRangeRelative Humidity71076.672 - 7857.3	Range CO ² 30% - 60% 3529		cupants 1
Noticeable Odor Yes Visible water damage / staining? Ceiling Tectum No Walls Plaster/Tack Board No Floor 12" x 12" Vinyl No	Visible microbial growth? No No	Amount of material affected	
Ceiling CleanYesHVAC Supply Grills CleanWalls CleanYesInside of Supply Duct CleanFlooring CleanYesDuct CleanRoom SurfacesNoCeiling at Suppl Grills Clean	NO	HVAC Return Grills Clean Inside of Return Duct Clean	No No
Trash RemovedNoExhaust Fans WorkinSigns of PestsNoDrain Traps WorkinRoom ClutteredYesFood if Stored in Room in Sealed Containers	et Yes	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No Yes
Mechanical Equipment Location Floor unit in classroom Filters Installed Properly Yes Filters Clear Condensate Pan Clean N/A Cooling Coil Clear		Mechanical Room Clean Inside of HVAC Unit Clean	N/A No
Fresh Air Intake Location Ducted Pre-treatment system Pollutant Sources Near Air No Intake Observations	em ▼ ▼	Fresh Air Intake Free of Obstruction	Yes

Classroom is somewhat cluttered with books, papers and other supplies. Teacher reports room is always hot. One (1) area rug in room, dirty, stained, dirt underneath. Blinds clean, but window sill has debris and dust on horizontal and elevated surfaces throughout. Crack observed in ceiling concrete (near beam and hallway wall). Floor HVAC unit (back of room) is cool/adequate temperature close to the unit, but temperature increases as move away.

Corrective Actions to be Completed by Site Based Staff

Remove, replace, date A/C Filters	▼
Remove air fresheners	▼
Encourage occupant to reduce clutter	▼
Store items in plastic containers with lids	▼
Consider removing or thoroughly cleaning area rug	▼
Clean horizontal/elevated surfaces	▼
Clean Exhaust & Supply Grills with Wexcide	▼
Clean cobwebs from low corners	▼

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