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

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February 13	, 2018 Signature on File	For Custodial Supervisor Use Only
TO:	Danielle Smith, Principal  Bennett Elementary	Custodial Issues Addressed  Custodial Issues Not Addressed
FROM:	Daniel Meyer, Project Manger Environmental Health & Safety Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On February 12, 2018, I conducted an assessment at **Bennett 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.

DM:smn Enc.

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

Bennett	Elementary Evaluation Date	<b>e</b> February 12, 2018	Time of Day 10:0	00 AM
Outdoor Conditions Tempera	ature 80.1 Relative	Humidity 76.1	Ambient CO2 4	07
		Range CO <sup>2</sup> % - 60%		3
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	No	No		
Walls Drywall	Yes	No	Under window	
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean Yes Walls Clean Yes Flooring Clean Yes	HVAC Supply Grills Clean Inside of Supply Duct Clean	Yes	HVAC Return Grills Clean Inside of Return Duct Clean	Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes Signs of Pests No	Exhaust Fans Working Drain Traps Wet	Yes	Unapproved Chemicals / Cleaners in Room Air Fresheners	No No
Room Cluttered No	Food if Stored in Room is in Sealed Containers	Yes	in Room	
Mechanical Equipment Location	Bard like HVAC system in clas	ssroom	Mechanical Room Clean	N/A
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	No
Condensate Pan Clean No	Cooling Coil Clean	No		
Fresh Air Intake Location	Behind Bard unit/Exterior wal	I ▼	Fresh Air Intake Free	Yes
Pollutant Sources Near Air Intake	No	▼	of Obstruction	
Observations				

East wall - drywall wet under the window and around the door. Window needs to be sealed properly and drywall needs to be replaced. Ceiling tiles around the supply grills need to be cleaned. Lights opened up and lens wiped clean. Inside of the A/C unit and supply drops need to be cleaned. Live plants need to be removed from classroom. Water at the base leads to higher humidity and moist soil contain various types of molds. CO2 levels are slightly elevated. Desiccant wheels in A/C unit are not working properly.

### Corrective Actions to be Completed by Site Based Staff

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▼	Set Temperature to 72 - 78 degrees
▼	Repair HVAC to Reduce CO2 Levels
▼	Clean entire HVAC system - unit and drops
▼	Evaluate and repair cause of water damaged
▼	wall material (under window / around door)
▼	Remove and replace wall material as needed
<b>▼</b>	
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Bennett	Elementary Evaluation Dat	<b>February 12, 2018</b>	Time of Day 10:00 A	λM
Outdoor Conditions Tempera	nture 80.1 Relative	Humidity 76.1	Ambient CO2 407	
		Range CO <sup>2</sup> 579	Range # Occup MAX 700 > 3 Ambient	
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	No	No		$\square$
Walls Drywall	Yes	No	Under window	$\square$
Floor 12" x 12" Vinyl	No	No		$\Box  $
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	res
Flooring Clean Yes	Inside of Supply Duct Clean	No	Inside of Return Duct Clean	No
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drain Traps Wet	Yes	_	<u> </u>
Room Cluttered No	Food if Stored in Room is in Sealed Containers	Yes	in Room	res
Mechanical Equipment Location	Bard like HVAC system in clas	ssroom	Mechanical Room Clean	N/A
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	No
Condensate Pan Clean No	Cooling Coil Clean	No		
Fresh Air Intake Location	Behind Bard unit/Exterior wal	I <b>V</b>	Fresh Air Intake Free	res
Pollutant Sources Near Air Intake	No	▼	Oi Obstituction —	
Observations				
Remove air freshener. East wall properly and drywall needs to be and lens wiped clean. Inside of t working properly.	e replaced. Ceiling tiles around	the supply grills need	to be cleaned. Lights opened	d up

# Corrective Actions to be Completed by Site Based Staff

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	Controller of to the completion by 11 C
▼	Repair HVAC to Reduce Humidity Levels
▼	Clean entire HVAC system - unit and drops
▼	Evaluate and repair cause of water damaged
▼	wall material (under window / around doors)
▼	Remove and replace wall material as needed
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Bennett	Elementary Evaluation Da	te February 12, 2018	Time of Day 10:00 AM	Л
Outdoor Conditions Tempera	ture 80.1 Relative	e Humidity 76.1	Ambient CO2 407	]
		Range <u>CO<sup>2</sup></u> % - 60%	Range # Occupa MAX 700 > 2 Ambient	ints
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	No	1 tile	
Walls Drywall	Yes	No	Under window	
Floor 12" x 12" Vinyl	No	No		$\supset$
Ceiling Clean Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	2
Walls Clean Yes Flooring Clean Yes	Inside of Supply Duct Clean	No	Inside of Return Duct Clean	<u>.</u>
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / No	<u> </u>
Signs of Pests No  Room Cluttered No	Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes	Air Fresheners Yes	s
Mechanical Equipment Location	Bard like HVAC system in cla	ssroom	Mechanical Room Clean N/A	A
Filters Installed Properly Yes	Filters Clean	Yes	nside of HVAC Unit Clean No	<b>o</b>
Condensate Pan Clean No	Cooling Coil Clean	No		
Fresh Air Intake Location	Behind Bard unit/Exterior wa	II ▼	Fresh Air Intake Free Yes	s
Pollutant Sources Near Air Intake	No	▼	of Obstruction	
Observations				
Remove air freshener. East wall properly and drywall needs to be and lens wiped clean. Inside of the working properly.	replaced. Ceiling tiles around	I the supply grills need t	to be cleaned. Lights opened ι	

### **Corrective Actions to be Completed by Site Based Staff**

Corrective Actions to be completed by the Buseu of	
Clean dust from ceiling tiles or replace	
Open light fixture and wipe lenses	
Remove air fresheners	▼
Clean return air grill	
Remove and replace stained ceiling tile	▼
If stains return, contact COMPASS for work order	▼
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	Controller of to the completion by 11 C
▼	Repair HVAC to Reduce Humidity Levels
▼	Clean entire HVAC system - unit and drops
▼	Evaluate and repair cause of water damaged
▼	wall material (under window / around doors)
▼	Remove and replace wall material as needed
▼	
▼	
▼	

Bennett	Elementary Evaluation Dat	e February 12, 2018	Time of Day10:0	00 AM
Outdoor Conditions Tempera	ature 80.1 Relative	Humidity 76.1	Ambient CO2 40	07
		Range CO <sup>2</sup> 784		ccupants 3
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	No	No		
Walls Drywall	Yes	No	Under window & South	wall
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	No
Walls Clean Yes Flooring Clean Yes	Inside of Supply Duct Clean	No	Inside of Return Duct Clean	No
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drain Traps Wet	Yes	Air Fresheners	[Vaa]
Room Cluttered No	Food if Stored in Room is in Sealed Containers	Yes	in Room	Yes
Mechanical Equipment Location	Bard like HVAC system in clas	ssroom	Mechanical Room Clean	N/A
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	No
Condensate Pan Clean No	Cooling Coil Clean	No		
Fresh Air Intake Location	Behind Bard unit/Exterior wal	I ▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	No	▼	of Obstruction	
Observations				
East wall - drywall wet under th				
to be replaced. SOUTH wall - roo be cleaned. Lights opened up a				

Desiccant wheels in A/C unit are not working properly.

Corrective Actions to be Completed by Site Based	Staff	
Clean dust from ceiling tiles or replace		
Open light fixture and wipe lenses	▼	
Clean return air grill		
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Confective Actions to be Completed by 110	
Repair HVAC to Reduce Humidity Levels	▼
Clean entire HVAC system - unit and drops	▼
Evaluate and repair cause of water damaged	▼
wall material (under window / around doors)	▼
South wall - Remove and replace wall material	▼
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