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

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October 1	3, 2015 Signature on File	For Custodial Supervisor Use Only
TO:	Kellee Stroup, Principal Country Hills Elementary	Custodial Issues Addressed
FROM:	Daniel Meyer, Project Manager Environmental Health & Safety Department	Custodial Issues Not Addressed
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On October 12, 2015, I conducted an assessment at **Country Hills 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.

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
Rich Volipi, Supervisor II Custodial
Mark Murray, Supervisor II Custodial
Sam Bays, Director, Maintenance Operations
Kurt Wirz, Area Manager Trades

IAQ Assessment

Country Hills Elementary

Evaluation Date October 12, 2015

Time of Day

1:00 PM

Outdoor Conditions	Tempera	ture 8	4.7	Relativ	e Humidit	63.8] 4	Ambient CO2	425
		nge R - 78	elative Hun 63.7	i	Range 0% - 60%	11		Range # 0 MAX 700 > Ambient	Occupants 20
Noticeable Odor No Visible water dai staining? Ceiling 2' X 4' Lay in Yes						e microbial rowth?		Amount of material affected 2 tiles	
	Tackboard		Yes No		Г			200	
	12" Vinyl		No						
Ceiling Clean Walls Clean	Yes		HVAC Su Grills Cle		Yes			HVAC Return Grills Clean	Yes
Flooring Clean	Yes		Inside of Duct Cle		Yes			Inside of Return Duct Clean	Yes
Room Surfaces Clean	Yes		Ceiling a Grills Cle		Yes				
Trash Removed	Yes	Exi	haust Fans		Yes			proved Chemicals <i>i</i> ners in Room	No
Signs of Pests Room Cluttered	No No	Food	Drain T	raps Wet Room is				Fresheners Room	No
Noom olditered	140		aled Contai		N/A		III F	KOOIII	
Mechanical Equipmo	Mechanical Equipment Location Above Ceiling Mechanical Room Clean N/A						N/A		
Filters Installed Properly Yes Filters Clean Yes				Inside	of HVAC Unit Clean	N/A			
Condensate Pan (Clean N/A		Cooling Co	oil Clean	N/A				
Fresh Air Intake Loca	Fresh Air Intake Location Ducted to roof-top ▼ Fresh Air Intake Free of Obstruction Yes						Yes		
Pollutant Sources Ne Intake	ear Air	No				▼	0.		
Observations									
2 wet ceiling tiles. High humidity and CO2 levels									
Corrective Actions to be Completed by Site Based Staff Replace stained ceiling tile after repair ▼ Corrective Actions to be Completed by PPO Repair HVAC to Reduce Humidity Levels ▼									
Replace Stat	nea cening t	ne arter rep	all	▼	<u> </u>	•		D2 level in classro	
				▼	Rep	oair cause o	f water s	tained ceiling tile	
				▼					▼
▼						▼			
	▼							▼	
				▼					▼

IAQ Assessment

Evaluation Date

Country Hills Elementary

October 12, 2015

Time of Day

1:00 PM

Outdoor Conditions Temperature 84.7	Relative Humidity 63.8 Ambient CO2 425						
Fish Temperature Range Relative In Section 1 508 72.5 72 - 78 58.5							
Noticeable Odor No Visible water staining	ing? growth? material affected						
Ceiling 2' X 4' Lay in Yes							
Walls Drywall/Tackboard No	No L						
Floor 12" x 12" Vinyl No	No						
	C Supply HVAC Return Grills Clean Yes						
Inside	le of Supply Clean Yes Inside of Return Duct Clean Yes						
	ng at Supply s Clean						
Trash Removed Yes Exhaust Fa	ans Working Yes Unapproved Chemicals / Cleaners in Room No						
Signs of Pests No Drain	in Traps Wet Yes						
Room Cluttered No Food if Stored in Sealed Cor	III KOOIII						
Mechanical Equipment Location Above Ceiling	Mechanical Equipment Location Above Ceiling Mechanical Room Clean N/A						
Filters Installed Properly Yes Fi	Filters Clean Yes Inside of HVAC Unit Clean N/A						
Condensate Pan Clean N/A Cooling Coil Clean N/A							
Fresh Air Intake Location Ducted to roof-top ▼ Fresh Air Intake Free of Obstruction Yes							
Pollutant Sources Near Air Intake	of Obstruction ▼						
Observations							
3 water stained ceiling tiles by supply grill. High Co	O2 level						
Corrective Actions to be Completed by Site Based Staff Corrective Actions to be Completed by PPO							
▼ Repair HVAC to reduce CO2 level in classroom Y Repair cause of water stained ceiling tiles							
	 ▼ Repair cause of water stained ceiling tiles ▼ Ceiling tile cuts needed around supply vents 						
	▼						
	▼						
▼							
	▼ ▼						

IAQ Assessment

Country Hills Elementary Eva	Aluation Date October 12, 2015 Time of Day 1:00 PM					
Outdoor Conditions Temperature 84.7	Relative Humidity 63.8 Ambient CO2 425					
Fish Temperature Range Relative Hur 507 72.9 72 - 78 57.1	midity Range <u>CO</u> ² Range # Occupants 30% - 60% 1491 MAX 700 > 21 Ambient					
Noticeable Odor Yes Visible water da staining? Ceiling 2' X 4' Lay in No Walls Drywall/Tackboard No						
Floor 12" x 12" Vinyl No						
Ceiling Clean Yes Grills Clean Yes Inside of Duct Cle	Iean Yes Grills Clean Yes Inside of Return					
Room Surfaces Yes Ceiling a Clean Grills Cle	at Supply lean Yes					
Trash Removed Yes Exhaust Fans Signs of Pests No Drain T Room Cluttered No Food if Stored in Sealed Contain	Cleaners in Room Traps Wet No Air Fresheners No in Room					
Mechanical Equipment Location Above Ceiling Mechanical Room Clean N/A						
Filters Installed Properly Yes Filters Clean Yes Inside of HVAC Unit Clean N/A Cooling Coil Clean N/A						
Fresh Air Intake Location Pollutant Sources Near Air Intake Ducted to roof-top No	Fresh Air Intake Free of Obstruction					
Observations Wood bookshelf has spotty microbial growth. Drywall by window shows signs of water intrusion. (paint peeling) Exhaust fan not working. Sink in classroom - trap was dry.						
Corrective Actions to be Completed by Site Based Staff Corrective Actions to be Completed by PPO						
Clean wooden bookshelf w/wexcide ▼ Repair HVAC to reduce CO2 level in classroom ▼						
Pour water down drains when not in use ▼ Evaluate cause of peeling paint by windows ▼						
▼ Repair / Replace exhaust fan ▼						