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

FACSIMILE: (754) 321-4285

TELEPHONE (754) 321-4200

November 30	, 2017	Signature on File	Fo	r Custodial Supervisor Use Only
				Custodial Issues Addressed
ТО	Robert Pappas, Prin Gulfstream Acaden	-		Custodial Issues Not Addressed
FROM:	Robert Krickovich, Environmental Hea	Coordinator, LEA llth & Safety Department		
SUBJECT:	Indoor Air Quality	(IAQ) Assessment		

On November 29, 2017, I conducted an assessment at **Gulfstream Academy K-8 School**. Attached are findings and recommendations for further assessment, remediation, or corrective actions needed.

The IAQ Assessment did not identify any existing conditions significantly impacting IAQ or presenting immediate health and safety concerns 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 allergens and / or conditions noted 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 any item/s identified and noted 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.

RK: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

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Clean water stain from light fixture	
Remove and replace stained ceiling tile	▼
If stains return, contact COMPASS for work order	▼
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	ightharpoons
	lacksquare
	▼

Corrective Actions to be Completed by FFO	
Repair HVAC to Reduce Humidity Levels	▼
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Corrective / tetrone to be completed by one bacca of	٠
Remove and replace stained ceiling tile	▼
If stains return, contact COMPASS for work order	
Remove and replace A/C Filters	▼
	▼
	▼
	▼
	▼
	▼

Repair HVAC to Reduce Humidity Levels		
Replace damaged wall material under right		
HVAC Return grill	▼	
	▼	
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	▼	
	▼	

Remove and replace stained ceiling tile	
If stains return, contact COMPASS for work order	
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	▼
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	▼

Repair HVAC to Reduce Humidity Levels	▼
Repair HVAC to reduce CO2	▼
	▼
	▼
	▼
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	▼
	▼

IAQ Assessment

Gulfs	tream Academy E	Evaluation D	ate November 29,	2017 Time of Day 9:00	AM
Outdoor Conditions Tem	perature 79.5	Relativ	ve Humidity 88	Ambient CO2 432	
Fish Temperature R7-E 67.8	Range Relative I 72 - 78 80.	. i	Range 0% - 60%	CO ² Range # Occi 650 MAX 700 > Ambient	upants 2
Noticeable Odor No	Visible wate staini	•	Visible microbia growth?	al Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	<u> </u>	Yes	See below	
Walls Homasote	No	_ 	No		
Floor 12" x 12" Vinyl	Yes		No	See below	
Ceiling Clean Yes Walls Clean Yes		C Supply Clean	Yes	HVAC Return Grills Clean	Yes
Flooring Clean Yes		e of Supply Clean	Yes	Inside of Return Duct Clean	Yes
Room Surfaces Yes Clean		ng at Supply Clean	Yes		
Trash Removed Yes	Exhaust Fa	ans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drai	n Traps Wet	Yes		
Room Cluttered No	Food if Store in Sealed Co		N/A	Air Fresheners in Room	No
Mechanical Equipment Locat	ion Wall Mounted Un	it		Mechanical Room Clean	N/A
Filters Installed Properly	Yes F	ilters Clean	Yes	Inside of HVAC Unit Clean	No
Condensate Pan Clean	N/A Cooling	g Coil Clean	N/A		
Fresh Air Intake Location	Outside of Unit		I	▼ Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	None			▼ Of Obstruction	
Observations					
				d roof deck above ceiling - roof longer supported, rusted, damag	jed,
Corrective Actions to be Co	mpleted by Site Basec	l Staff	Corrective A	Actions to be Completed by PPO	
Clean staining w	ater from floor	▼		C to Reduce Humidity Levels	▼
			Set Temp	perature to 72 - 78 degrees	▼
				Repair roofing	_ ▼
				I growth from wood decking and	
		▼	spray decki	ng with anti-microbial coating	▼

Contact SBBC Building Department regarding repair of electrical conduit Replaces water damaged ceiling insulation

IAQ Assessment

Gulfstrea	am Academy Evaluation Da	Ite November 29, 2017	Time of Day 9:00 AM
Outdoor Conditions Temper	ature 79.5 Relativ	e Humidity 88	Ambient CO2 432
	Relative Humidity 2 - 78 65.1 30	Range <u>CO</u> ² 19% - 60% 1402	Range # Occupants MAX 700 > 24 Ambient
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Ceiling 2' X 4' Lay in	Yes	No	2 Stained Tiles
Walls Homasote	Yes	No	40 Sq Ft
Floor 12" x 12" Vinyl	Yes	No	10 Sq Ft
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean Yes
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	Yes	
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room
Signs of Pests No	Drain Traps Wet	Yes	Air Fresheners No
Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	in Room
Mechanical Equipment Location	Wall Mounted Unit		Mechanical Room Clean N/A
Filters Installed Properly No.	Filters Clean	Yes	nside of HVAC Unit Clean No
Condensate Pan Clean N/A	Cooling Coil Clean	N/A	
Fresh Air Intake Location	Outside of Unit	▼	Fresh Air Intake Free of Obstruction
Pollutant Sources Near Air Intake	None	▼	
Observations	Materials In the Paris	five.ve 4 Calling tile mi	

2 Stained ceiling tiles near restroom - Water stain in one light fixture - 1 Ceiling tile missing over sink - Water damaged walls under both HVAC Return grills - Flooring water damaged under both HVAC return grills - HVAC filters not installed properly, fell out of holders- spotty microbial growth on wood roof deck above missing ceiling tile. School based staff should be removing stained ceiling tiles and calling in work orders for roofing repairs, and to repair water damaged walls

Corrective Actions to be Completed by Site Based Staff

Corrective Actions to be completed by the Buseu of	
Clean water stain from light fixture	▼
Remove and replace stained ceiling tile	▼
If stains return, contact COMPASS for work order	▼
Remove and replace A/C Filters	▼
	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Corrective Actions to be Completed by PPO	
Repair HVAC to Reduce Humidity Levels	▼
Set Temperature to 72 - 78 degrees	▼
Repair HVAC to reduce CO2	▼
Clean microbial growth from wood decking and	•
spray decking with anti-microbial coating	▼
Evaluate and repair cause of water damaged	▼
wall material and flooring	•
Repair water damaged wall and flooring	▼