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

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December 20	, 2016	Signature on File	For Custodial Supervisor Use Only
TO:	Robert Pappas, Principa Gulfstream Academy o		Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Robert Krickovich, Coor Environmental Health &	·	
SUBJECT:	Indoor Air Quality (IAQ	2) Assessment	

On December 19, 2016, I conducted an assessment at **Gulfstream Academy of Hallandale Beach.** 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.

RK: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

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Replace broken / missing ceiling tiles	▼
Remove and replace stained ceiling tile	▼
If stains return, contact COMPASS for work order	▼
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Corrective Actions to be completed by 11 C	
Evaluate and repair cause of stained ceiling tile	▼
Repair HVAC unit to stop condensation leak	▼
Repair HVAC to Reduce Humidity Levels	▼
Replace water damaged carpet squares under	▼
HVAC unit	▼
	▼
	▼
	▼

IAQ Assessment

Gulfstream Ad	eademy Evaluation Date	te December 19, 2016	Time of Day 9:30 AM
Outdoor Conditions Temperature	81.3 Relative	e Humidity 89.9	Ambient CO2 446
Fish Temperature Range 114 73.9 72 - 78		Range CO ² % - 60%	
Noticeable Odor No Ceiling 2' X 4' Lay in Walls Plaster	Visible water damage / staining? No No	Visible microbial growth? No No	Amount of material affected
Floor 12" x 12" Vinyl	Yes	No	10 Square Feet
Ceiling Clean Yes Walls Clean No Flooring Clean No	HVAC Supply Grills Clean Inside of Supply Duct Clean	Yes	HVAC Return Grills Clean Inside of Return Duct Clean Yes
Room Surfaces No Clean	Ceiling at Supply Grills Clean	Yes	
Trash Removed Yes Signs of Pests No Room Cluttered No	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is	N/A N/A	Unapproved Chemicals / No Cleaners in Room Air Fresheners in Room
	in Sealed Containers	N/A	III NOOIII
Mechanical Equipment Location Ce	ling Mounted Unit		Mechanical Room Clean N/A
Filters Installed Properly Condensate Pan Clean N/A	Filters Clean Cooling Coil Clean	N/A	Inside of HVAC Unit Clean N/A
Fresh Air Intake Location Pollutant Sources Near Air Intake	known	V	Fresh Air Intake Free of Obstruction
Observations	-		
Walls dirty / stained at and above vir trash can under ceiling mounted A/C unit wet - Humidity Elevated - CO2 E	unit full of condensate wa		
Corrective Actions to be Completed			ns to be Completed by PPO

Thoroughly clean ALL surfaces	▼	
Thoroughly clean and sanitize flooring		
Clean dust / debris from wall surfaces	▼	
Clean water from floor and table	▼	
Empty trash can full of water		
	▼	
	▼	
_	▼	

Evaluate and repair HVAC system as needed	▼
Repair HVAC to Reduce Humidity Levels	▼
Repair HVAC to reduce CO2	▼
Repair HVAC unit to stop condensation leak	▼
	▼
	▼
	▼
	▼

IAQ Assessment

Gulfstream Academy E	valuation Dat	e December 19, 20	16 Time of Day 9:30 A	AM
Outdoor Conditions Temperature 81.3	Relative	Humidity 89.9	Ambient CO2 446	
Fish Temperature Range Relative F 132 77.7 72 - 78 70.6	 i		Range # Occu MAX 700 >	ipants 22
Noticeable Odor No Visible water stainin Ceiling 2' X 4' Lay in No		Visible microbial growth?	Amount of material affected	
Walls Plaster No	_]	No		
Floor 12" x 12" Vinyl No]	No		
Grills Walls Clean Yes	Supply Clean of Supply	No	HVAC Return Grills Clean Inside of Return	No
Flooring Clean No Duct		Yes	Duct Clean	Yes
	g at Supply Clean	No		
	ns Working	N/A	Unapproved Chemicals / Cleaners in Room	No
Room Cluttered No Food if Stored in Sealed Cor		N/A	Air Fresheners [No
Mechanical Equipment Location Ceiling Mounted	Unit		Mechanical Room Clean	N/A
Filters Installed Properly N/A Fi	ilters Clean	N/A	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean N/A Cooling	Coil Clean	N/A		
Fresh Air Intake Location Pollutant Sources Near Air Intake		▼	Fresh Air Intake Free of Obstruction	
Observations				
Flooring dirty stained - Surfaces dusty - Ceiling mis	ssing under	A/C unit - Humidity	Elevated - CO2 Elevated	
Corrective Actions to be Completed by Site Based	Staff	Corrective Ac	tions to be Completed by PPO	
Thoroughly clean and sanitize flooring	▼	Replace mis	sing ceiling @ HVAC Unit	▼
Thoroughly clean ALL surfaces	▼		pair HVAC system as needed	▼
Clean Supply Grills with Wexcide	─ ┃		to Reduce Humidity Levels	
Clean HVAC Return Grill with Wexcide	▼	Repair	HVAC to reduce CO2	▼

IAQ Assessment

Gulfstream	n Academy Evaluation Dat	December 19, 2016	Time of Day 9:30 AM
Outdoor Conditions Tempera	ture 81.3 Relative	e Humidity 89.9	Ambient CO2 446
		Range <u>CO²</u> % - 60% 641	Range # Occupants MAX 700 > 20 Ambient
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Ceiling 2' X 4' Lay in	Yes	No	3 Square Feet
Walls Plaster	No	No	
Floor 12" x 12" Vinyl	No	No	10 Square Feet
Ceiling Clean Yes	HVAC Supply Grills Clean	No	HVAC Return Grills Clean
Walls Clean No Flooring Clean No	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean Yes
Room Surfaces No Clean	Ceiling at Supply Grills Clean	No	
Trash Removed Yes	Exhaust Fans Working	N/A	Unapproved Chemicals / Cleaners in Room
Signs of Pests No Room Cluttered No	Drain Traps Wet Food if Stored in Room is in Sealed Containers	No N/A	Air Fresheners No in Room
Mechanical Equipment Location	Ceiling Mounted Unit		Mechanical Room Clean N/A
Filters Installed Properly N/A	Filters Clean	N/A	Inside of HVAC Unit Clean N/A
Condensate Pan Clean N/A	Cooling Coil Clean	N/A	
Fresh Air Intake Location	Unknown	▼	Fresh Air Intake Free
Pollutant Sources Near Air Intake		▼	of Obstruction
Observations			
Art Room - Walls dirty / stained a dirty - 2 cabinets with minor micr front of A/C units dirty / dusty - 5 leaking - 2 Ceiling tiles missing -	obial growth - Stained ceiling sinks all traps dry - sign on si	tile under Front A/C un	it - Light fixtures and ceiling in

Corrective Actions to be Completed by Site Based Staff

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Replace broken / missing ceiling tiles	▼
Thoroughly clean ALL surfaces	▼
Clean dust / debris from wall surfaces	▼
Thoroughly clean and sanitize flooring	▼
Clean shelves and cabinets with wexcide	▼
Clean ceilings around HVAC supply grills	▼
Clean Supply Grills with Wexcide	·
Clean HVAC Return Grill with Wexcide	·

Corrective Actions to be Completed by PPO

Corrective Actions to be completed by 110	
Evaluate and repair HVAC system as needed	▼
Repair HVAC to Reduce Humidity Levels	▼
Evaluate and repair cause of stained ceiling tile	▼
Remove and replace stained ceiling tiles	▼
Repair all sink traps / Repair all sinks to operate	▼
Repair water damaged sink cabinets	▼
	▼
	▼