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

TELEPHONE (754) 321-4200

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August 25	5, 2015 Signature on File	For Custodial Supervisor Use Only
TO:	Carol Lesser, Principal Nova Eisenhower Elementary	Custodial Issues Addressed
FROM:	Robert Krickovich, LEA Environmental Health & Safety Department	Custodial Issues Not Addressed
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On August 18, 2015, I conducted an assessment at **Nova Eisenhower 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 Assessi	ment	
Nova Eisenhower	Elementary Evaluation Dat	e August 18, 2015	Time of Day 10:00 AM
Outdoor Conditions Tempera	ture 89.1 Relative	Humidity 74.4	Ambient CO2 418
		Range CO % - 60% 439	
Noticeable Odor	Visible water damage / staining?	Visible microbial growth?	Amount of material affected
Ceiling 2' X 4' Lay in	Yes	No	14 stained ceiling tiles
Walls Drywall	No	No	
Floor 12" x 12" Vinyl	No	No	
Ceiling Clean Yes Walls Clean Yes	HVAC Supply Grills Clean	No	HVAC Return Grills Clean Yes
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	Yes	
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / No
Signs of Pests No	Drain Traps Wet	Yes	
Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners No in Room
Mechanical Equipment Location	Bard unit outside of room		Mechanical Room Clean N/A
Filters Installed Properly Yes] Filters Clean	Yes	Inside of HVAC Unit Clean N/A
Condensate Pan Clean N/A	Cooling Coil Clean	N/A	
Fresh Air Intake Location	Outside of Unit	▼	Fresh Air Intake Free Yes
Pollutant Sources Near Air Intake	None	▼	
Observations			
14 stained ceiling tiles -			

Corrective Actions to be Completed by Site Based Staff

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Remove and replace stained ceiling tile	▼
Call in work order to repair roofing	▼
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Evaluate and repair cause of stained ceiling tile	▼
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	IAQ Assessr	nent		
Nova Eisenhov	ver Elementary Evaluation Date	e August 18, 2015	Time of Day 10:0	0 AM
Outdoor Conditions Temp	perature 89.1 Relative	Humidity 74.4	Ambient CO2 41	8
FishTemperature85373.8		Range CO ² % - 60% 492	Range # Oc MAX 700 > Ambient	cupants 2
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Νο	No		
Walls Drywall	 	No		
Floor 12" x 12" Vinyl	No	No		
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	Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	Yes		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
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	on Bard unit outside of room		Mechanical Room Clean	N/A
Filters Installed Properly	Yes Filters Clean	Yes	nside of HVAC Unit Clean	N/A
Condensate Pan Clean	N/A Cooling Coil Clean	N/A		
Fresh Air Intake Location	Outside of Unit	▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	None	▼	of Obstruction	
Observations				
No issues identified				

Corrective Actions to be Completed by Site Based Staff

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	IAQ Assessr	nent		
Nova Eisenhower	Elementary Evaluation Dat	e August 18, 2015	Time of Day 10:	00 AM
Outdoor Conditions Tempera	ature 89.1 Relative	Humidity 74.4	Ambient CO2 4	18
		Range CO ² % - 60% 492		ccupants 2
Noticeable Odor Yes	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in Walls Drywall Floor 12" x 12" Vinyl	No No	No No No		
Ceiling CleanYesWalls CleanYesFlooring CleanYes	HVAC Supply Grills Clean Inside of Supply Duct Clean	No Yes	HVAC Return Grills Clean Inside of Return Duct Clean	Yes Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash RemovedNoSigns of PestsNoRoom ClutteredNo	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	Yes Yes N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No Yes
Mechanical Equipment Location	Bard unit outside of room		Mechanical Room Clean	N/A
Filters Installed Properly Yes Condensate Pan Clean N/A		Yes N/A	Inside of HVAC Unit Clean	<u>N/A</u>
Fresh Air Intake Location Pollutant Sources Near Air Intake	Outside of Unit None	▼ ▼	Fresh Air Intake Free of Obstruction	Yes
Observations Odor in room from Glade plug in grills dirty - Ceilings at HVAC su			2 aquariums in room HVA	C supply

Corrective Actions to be Completed by Site Based Staff

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Repair HVAC to Reduce Humidity Levels	▼
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	IAQ Assessr	ment		
Nova Eisenhowe	er Elementary Evaluation Date	e August 18, 2015	Time of Day 10:0	00 AM
Outdoor Conditions Tempe	rature 89.1 Relative	Humidity 74.4	Ambient CO2 41	8
		Range CO ² % - 60% 421	Range # Oc MAX 700 > Ambient	cupants
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	No	No		
Walls Drywall	No	No		
Floor 12" x 12" Vinyl	 No	No		
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	Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	Yes		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No Room Cluttered No	Drain Traps Wet Food if Stored in Room is	Yes N/A	Air Fresheners in Room	No
	in Sealed Containers			
Mechanical Equipment Location	Bard unit outside of room		Mechanical Room Clean	N/A
Filters Installed Properly	Filters Clean	Yes	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean N/	A Cooling Coil Clean	N/A		
Fresh Air Intake Location	Outside of Unit	▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	None	▼	of Obstruction	
Observations				
No issues identified				

Corrective Actions to be Completed by Site Based Staff

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	IAQ Assess	ment		
Nova Eisenhower	Elementary Evaluation Dat	e August 18, 2015	Time of Day 10:	00 AM
Outdoor Conditions Tempera	ture 89.1 Relative	Humidity 74.4	Ambient CO2 4	18
		Range CO ² % - 60% 801		ccupants 1
Noticeable Odor Yes	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	No	4 stained tiles	
Walls Drywall	Yes	Yes	4 Sq ft above ceilin	g
Floor 12" x 12" Vinyl	No	No		
Ceiling 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	Yes
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	Yes		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
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	Bard unit outside of room		Mechanical Room Clean	N/A
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean N/A	Cooling Coil Clean	N/A		
Fresh Air Intake Location	Outside of Unit	▼	Fresh Air Intake Free of Obstruction	Yes
Pollutant Sources Near Air Intake	None	▼	0.00511001011	
Observations				
Musty Odor in room - 4 stained o visible microbial growth.	ceiling tiles - drywall above ceil	ing tiles stained - one	stained area above ceilin	g has

Corrective Actions to be Completed by Site Based Staff

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Evaluate and repair cause of stained ceiling tile	▼
Replace damaged drywall above ceilings	▼
Clean entire HVAC system - unit and drops	▼
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