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

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November 17,	2016 Signature on File	For Custodial Supervisor Use Only
TO:	Anthony Valachovic, Principal Northeast High	Custodial Issues Addressed Custodial Issues Not Addressed
FROM:	Robert Krickovich, Coordinator LEA Environmental Health & Safety Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On November 17, 2016, I conducted an assessment at **Northeast High 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.

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

Northeast High Eval	uation Date Novem	ber 17, 2016 Time of Day	y 12:30
Outdoor Conditions Temperature 76.7	Relative Humidity	55.2 Ambient C	O2 414
Fish Temperature Range Relative Hum 276 69.6 72 - 78 60.8	idity Range 30% - 60%	CO ² Range 1204 MAX 700 Ambier	
Noticeable Odor No Visible water da staining?	nage /	microbial Amour	
Ceiling 2' X 4' Lay in No	1	No	
Walls Plaster No		No	
Floor 12" x 12" Vinyl No	1	No	
Ceiling Clean Yes HVAC Su		HVAC Re Grills Cle	I Voc I
Walls Clean Yes Inside of Flooring Clean Yes Duct Clea		Inside of Duct Clea	Vac
Room Surfaces Yes Ceiling at Clean Grills Cle			
Trash Removed Yes Exhaust Fans		Unapproved Che Cleaners in Roo	
Signs of Pests No Drain Tr Room Cluttered No Food if Stored in	Room is N/A	Air Fresheners in Room	No No
in Sealed Contain	ners N/A		
Mechanical Equipment Location Roof Top		Mechanical Roo	m Clean N/A
Filters Installed Properly N/A Filter	s Clean N/A	Inside of HVAC Ur	nit Clean N/A
Condensate Pan Clean N/A Cooling Co	il Clean N/A	N/A in this section =	Not Accessible
Fresh Air Intake Location Roof top		Fresh Air Inta	
Pollutant Sources Near Air Intake		of Obstructio	n <u>les</u>
Observations			
Humidity slightly elevated - CO2 Slightly elevated - Ro	om to cold		
Corrective Actions to be Completed by Site Based St	aff Corr	ective Actions to be Comple	ted by PPO
		air HVAC to Reduce Humidity	
	▼ S	Repair HVAC to reduce CC et Temperature to 72 - 78 deg	
	▼		y V V
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Northeast High	Evaluation Date	November 17, 2016	Time of Day 1	2:30
Outdoor Conditions Temperature	76.7 Relative	Humidity 55.2	Ambient CO2 4	14
Fish Temperature Range 277 69.3 72 - 78		Range CO ² % - 60% 999	Range # Oo MAX 700 > Ambient	ccupants 1
Noticeable Odor Ceiling 2' X 4' Lay in Walls Plaster Floor 12" x 12" Vinyl Ceiling Clean Yes	Visible water damage / staining? No No No HVAC Supply	Visible microbial growth? No No No Yes	Amount of material affected HVAC Return	Yes
Walls Clean Yes Flooring Clean Yes Room Surfaces Yes Clean	Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	Yes	Grills Clean Inside of Return Duct Clean	Yes
Trash Removed Yes Signs of Pests No Room Cluttered No	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	N/A N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location Roo Filters Installed Properly N/A Condensate Pan Clean N/A	f Top Filters Clean Cooling Coil Clean	NI/A	Mechanical Room Clean Inside of HVAC Unit Clean A in this section = Not Acce	N/A N/A
Fresh Air Intake Location Pollutant Sources Near Air Intake Non	f top e		Fresh Air Intake Free of Obstruction	Yes
Observations Room to cold				
Corrective Actions to be Completed	by Sita Basad Staff	Commontine Anti-	an to be Compileted by D	
Corrective Actions to be Completed	▼		ns to be Completed by Pl ure to 72 - 78 degrees	▼
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Northeast High	Evaluation Date Nov	vember 17, 2016	Time of Day	12:30
Outdoor Conditions Temperature 76.7	Relative Humid	dity 55.2	Ambient CO2	414
Fish Temperature Range Relation 262 69.5 72 - 78	61.2 Range 30% - 60%	CO ² 4 1115	Range # C MAX 700 > Ambient	Occupants 1
	water damage / Visi staining? No	ible microbial growth?	Amount of material affected	
Walls Plaster Floor 12" x 12" Vinyl	No No	No No		
Walls Clean Yes Flooring Clean Yes Room Surfaces Yes	HVAC Supply Grills Clean nside of Supply Duct Clean Ceiling at Supply Grills Clean Yes	3	HVAC Return Grills Clean Inside of Return Duct Clean	Yes
Signs of Pests No Food if S	Drain Traps Wet Stored in Room is d Containers	Clea Ai	approved Chemicals / aners in Room ir Fresheners Room	No No
Mechanical Equipment Location Roof Top Filters Installed Properly N/A Condensate Pan Clean N/A Co	Filters Clean N/A	Inside	chanical Room Clean of HVAC Unit Clean his section = Not Acc	
Fresh Air Intake Location Pollutant Sources Near Air Intake None			Fresh Air Intake Free of Obstruction	Yes
Observations				
Humidity slightly elevated - CO2 Slightly eleva	ted - Room to cold			
Corrective Actions to be Completed by Site B		Corrective Actions to	<u> </u>	
	▼ F	Repair HVAC to Redu Repair HVAC to		· V
	▼	Set Temperature to		▼
	▼			▼
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Northeast High Eval	uation Date	November 17, 20	Time of Day	2:30
Outdoor Conditions Temperature 76.7	Relative Hu	midity 55.2	Ambient CO2 4	14
Fish Temperature Range Relative Hum 282 69.7 72 - 78 65.4	idity Ran	4.	Range # O MAX 700 > Ambient	ccupants 1
Noticeable Odor No Visible water da staining?	iliage /	/isible microbial growth?	Amount of material affected	_
Ceiling 2' X 4' Lay in No		No		
Walls Plaster No		No		
Floor 12" x 12" Vinyl No		No		
Ceiling Clean Yes HVAC Su Grills Cle Walls Clean Yes		/es	HVAC Return Grills Clean	Yes
Flooring Clean Yes Inside of Duct Clea		res .	Inside of Return Duct Clean	Yes
Room Surfaces Yes Ceiling a Grills Clean		res .		
Trash Removed Yes Exhaust Fans		N/A	Unapproved Chemicals / Cleaners in Room	No
Room Cluttered No Food if Stored in	Room is	N/A	Air Fresheners in Room	No
in Sealed Contai	ners 🗀			
Mechanical Equipment Location Roof Top			Mechanical Room Clean	N/A
Filters Installed Properly N/A Filter	s Clean I	N/A	Inside of HVAC Unit Clean	N/A
Condensate Pan Clean N/A Cooling Co	il Clean I	N/A	N/A in this section = Not Acc	essible
Fresh Air Intake Location Roof top			Fresh Air Intake Free	Yes
Pollutant Sources Near Air Intake				
Observations				
Humidity slightly elevated - CO2 Slightly elevated - Ro	om to cold			
Corrective Actions to be Completed by Site Based St	aff	Corrective Ac	tions to be Completed by P	PO
	▼		to Reduce Humidity Levels	
	▼		HVAC to reduce CO2 rature to 72 - 78 degrees	▼
	▼			▼
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Northeast High Eval	luation Date November 17, 2016 Time of Day 12:30
Outdoor Conditions Temperature 76.7	Relative Humidity 55.2 Ambient CO2 414
Fish Temperature Range Relative Hum C011 73.6 72 - 78 61.7	midity Range CO ² Range # Occupants 30% - 60% 1468 MAX 700 > 5 Ambient
Noticeable Odor No Visible water da staining?	
Ceiling 2' X 4' Lay in No	No L
Walls Plaster No Floor 12" x 12" Vinyl No	No
Floor 12" X 12" Vinyl No	No
Ceiling Clean Yes HVAC Su Grills Cle Walls Clean Yes	
Flooring Clean Yes Inside of Duct Clear	
Room Surfaces Yes Ceiling a Grills Cle	
Trash Removed Yes Exhaust Fans	Cleaners in Room No
Room Cluttered No Food if Stored in	
in Sealed Contain	iners NA
Mechanical Equipment Location Roof Top	Mechanical Room Clean N/A
Filters Installed Properly N/A Filter	rs Clean N/A Inside of HVAC Unit Clean N/A
Condensate Pan Clean N/A Cooling Co	oil Clean N/A in this section = Not Accessible
Fresh Air Intake Location Roof top	Fresh Air Intake Free
Pollutant Sources Near Air Intake	of Obstruction Tes
Observations	
Humidity slightly elevated - CO2 Slightly elevated	
Corrective Actions to be Completed by Site Based St	taff Corrective Actions to be Completed by PPO
	Repair HVAC to Reduce Humidity Levels ▼
	▼ Repair HVAC to reduce CO2 ▼
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Northeast High Eva	luation Date	November 17	, 2016 Ti n	ne of Day	12:30
Outdoor Conditions Temperature 76.7	Relative H	umidity 55	5.2 Ar	mbient CO2	414
Fish Temperature Range Relative Hur C012 69.3 72 - 78 62.2	midity Ra	nge 60%	co ²	Range # (MAX 700 > Ambient	Occupants 3
Noticeable Odor No Visible water da staining?		Visible microb growth?		Amount of material affected	
Ceiling 2' X 4' Lay in No		No			
Walls Plaster No		No			
Floor 12" x 12" Vinyl No		No			
Ceiling Clean Yes HVAC So		Yes		HVAC Return Grills Clean	Yes
Walls Clean Yes Inside of Plooring Clean Yes Duct Cle		Yes		Inside of Return Duct Clean	Yes
Room Surfaces Yes Ceiling a Grills Clean	at Supply ean	Yes			
Trash Removed Yes Exhaust Fans		N/A	• •	roved Chemicals /	No
Room Cluttered No Food if Stored in		N/A	Air F in Ro	resheners oom	No
in Sealed Contain	iners L				
Mechanical Equipment Location Roof Top			Mechai	nical Room Clean	N/A
Filters Installed Properly N/A Filte	ers Clean	N/A	Inside of	HVAC Unit Clean	N/A
Condensate Pan Clean N/A Cooling Co	oil Clean	N/A	N/A in this	section = Not Ac	cessible
Fresh Air Intake Location Roof top				sh Air Intake Free	Yes
Pollutant Sources Near Air Intake			of O	bstruction	103
Observations					
Humidity slightly elevated - CO2 Slightly elevated - Co	orridor to co	ld			
Corrective Actions to be Completed by Site Based S	taff	Corrective	Actions to be	Completed by	
OSTITUTIVE ACTIONS TO BE COMPLETED BY SILE DASEU S	▼			Completed by F Humidity Levels	
		Repa	air HVAC to re	duce CO2	▼
	 ▼ 	Set Tem	perature to 72	2 - 78 degrees	▼
					▼
	▼				▼
	▼				▼

Northeast High Eva	aluation Date November 17, 2016 Time of Day 12:30
Outdoor Conditions Temperature 76.7	Relative Humidity 55.2 Ambient CO2 414
Fish Temperature Range Relative Hur C013 64.8 72 - 78 64.3	midity Range <u>CO</u> ² Range # Occupants 30% - 60% 1426 MAX 700 > 5 Ambient
Noticeable Odor No Visible water d	
Ceiling 2' X 4' Lay in Yes	No 1 tile
Walls Plaster No	No
Floor 12" x 12" Vinyl No	No
Ceiling Clean Yes HVAC So Grills Cl Walls Clean Yes	
	of Supply ean Yes Inside of Return Duct Clean Yes
Room Surfaces Yes Ceiling a Grills Cl	at Supply lean Yes
Trash Removed Yes Exhaust Fans Signs of Pests No Drain T	Cleaners in Room No
Room Cluttered No Food if Stored in Sealed Conta	Air Fresheners No in Room
Mechanical Equipment Location Roof Top	Mechanical Room Clean N/A
Filters Installed Properly N/A Filte	ers Clean N/A Inside of HVAC Unit Clean N/A
Condensate Pan Clean N/A Cooling C	N/A in this section = Not Accessible
Fresh Air Intake Location Pollutant Sources Near Air Intake Roof top None	Fresh Air Intake Free of Obstruction Yes
Observations	
Humidity slightly elevated - CO2 Slightly elevated - C	Corridor to cold - 1 stained ceiling tile near room 282
Compatible Astions to be Compatible Use 200 7	
Corrective Actions to be Completed by Site Based S Remove and replace stained ceiling tile	Staff Corrective Actions to be Completed by PPO Repair HVAC to Reduce Humidity Levels ▼
If stains return, contact COMPASS for work order	▼ Repair HVAC to Reduce Humilarity Levels ▼
	▼ Set Temperature to 72 - 78 degrees ▼
	▼ Evaluate and repair cause of stained ceiling tile ▼

Northeast High	Evaluation Date	e November 17, 2016	5 Time of Day 12:30	0
Outdoor Conditions Temperature	76.7 Relative	Humidity 55.2	Ambient CO2 414	
Fish Temperature Range C014 68.8 72 - 78		Range <u>CO</u> % - 60% 1420		pants 5
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	No	2 tiles	
Walls Plaster	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	N/A	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drain Traps Wet	N/A	Air Fresheners	No
110	Food if Stored in Room is in Sealed Containers	N/A	in Room	140
Mechanical Equipment Location Roof	Тор		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 N	/A in this section = Not Accessi	ible
Fresh Air Intake Location Pollutant Sources Near Air Intake None	•		Fresh Air Intake Free of Obstruction	Yes
Observations				
Humidity slightly elevated - CO2 Slight near room 252A	ly elevated - Corridor to	cold - 2 stained ceilin	g tiles one near room 281, on	e
Corrective Actions to be Completed b	y Site Based Staff	Corrective Action	ons to be Completed by PPO	
Remove and replace stained ce	iling tile ▼	Repair HVAC to	Reduce Humidity Levels	▼
If stains return, contact COMPASS for	or work order ▼	•	AC to reduce CO2	▼
	▼		ture to 72 - 78 degrees	▼
	▼	Evaluate and repair	cause of stained ceiling tile	▼

Northeast High Eval	luation Date November 17, 2016 Time of Day 12:30
Outdoor Conditions Temperature 76.7	Relative Humidity 55.2 Ambient CO2 414
Fish Temperature Range Relative Hum 241 73.5 72 - 78 62.8	midity Range CO ² Range # Occupants 30% - 60% 691 MAX 700 > 7 Ambient
Noticeable Odor No Visible water da staining?	
Ceiling Plaster / 2' X 4' Lay in No	No
Walls Plaster No	No
Floor 12" x 12" Vinyl No	No
Ceiling Clean Yes HVAC Su Grills Cle	
Flooring Clean No Inside of Duct Clean	
Room Surfaces No Ceiling a Grills Clean	ean No
Trash Removed Yes Exhaust Fans	Working N/A Unapproved Chemicals / Cleaners in Room No
Signs of Pests No Drain To Room Cluttered No Food if Stored in in Sealed Contain	
Mechanical Equipment Location Roof Top	Mechanical Room Clean N/A
Filters Installed Properly N/A Filter	rs Clean N/A Inside of HVAC Unit Clean N/A
Condensate Pan Clean N/A Cooling Co	oil Clean N/A In this section = Not Accessible
Fresh Air Intake Location Roof top	Fresh Air Intake Free of Obstruction
Pollutant Sources Near Air Intake	Of Obstruction
Observations	
Debris on floor - Surfaces dusty - HVAC supply grills	dirty - Ceiling at supply grills dirty - Humidity elevated -
One stained ceiling tile in 241A	
Corrective Actions to be Completed by Site Based St	
Remove and replace stained ceiling tile If stains return, contact COMPASS for work order	▼ Evaluate and repair cause of stained ceiling tile ▼ Repair HVAC to Reduce Humidity Levels ▼
ii stanis istarii, sontast somi Ass for work ofder	▼ Repair HVAC to Reduce Humilarly Levels ▼
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Norteast High	Evaluation Date	November 17, 2016	Time of Day 12	2:30
Outdoor Conditions Temperature	76.7 Relative Hu	umidity 55.2	Ambient CO2 4	14
Fish Temperature Range 244 73.8 72 - 78	Relative Humidity Rar 64.6 30% -		Range # Oo MAX 700 > Ambient	e cupants 9
Noticeable Odor No Ceiling Plaster / 2' X 4' Lay in	staining?	Visible microbial growth?	Amount of material affected	
Ceiling Plaster / 2' X 4' Lay in Walls Plaster Floor Carpet	No No	No No		
Ceiling Clean Yes Walls Clean Yes Flooring Clean Yes Room Surfaces Clean	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	No Yes No	HVAC Return Grills Clean Inside of Return Duct Clean	Yes
Trash Removed Yes Signs of Pests No Room Cluttered No	Drain Traps Wet		Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location Roof	f Top Filters Clean		Mechanical Room Clean	N/A
Condensate Pan Clean N/A	Cooling Coil Clean	N/A N/A i	in this section = Not Acce	essible
Fresh Air Intake Location Pollutant Sources Near Air Intake None			Fresh Air Intake Free of Obstruction	Yes
Observations				
Surfaces dusty - HVAC supply grills d	irty - Ceiling at supply grills	dirty - Humidity eleva	ted.	
Corrective Actions to be Completed by	y Site Based Staff		to be Completed by PF	20
	▼	Repair HVAC to Re	educe Humidity Levels	▼
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