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

FACSIMILE: (754) 321-4285

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August 24, 20)17 Signature on File	For Custodial Supervisor Use Only
TO:	Melinda Frame-Wessinger, Principal	Custodial Issues Addressed
	New River Middle	Custodial Issues Not Addressed
FROM:	Alison Witoshynsky, Project Manager	
	Environmental Health & Safety Department	
SUBJECT:	Indoor Air Quality (IAQ) Assessment	

On August 21, 2017, I conducted an assessment at **New River Middle 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.

AW: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

Evaluation Date

New River Middle

Time of Day

12:45 PM

Outdoor Conditions Temper	rature 90.3 Relative	Humidity 67.1	Ambient CO2 4	62
		Range <u>CO</u> 2 % - 60 % 1708		18
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	No	@ each supply gril	
Walls Drywall	No	No		
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean No 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	No
Room Surfaces Yes Clean	Ceiling at Supply Grills Clean	No		
Trash Removed Yes	Exhaust Fans Working	Yes	Unapproved Chemicals / Cleaners in Room	No
Signs of Pests No	Drain Traps Wet	Yes	A!- F1	
Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners in Room	No
Mechanical Equipment Location	FISH 190		Mechanical Room Clean	No
Filters Installed Properly Ye	Filters Clean	Yes	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Ye	S Cooling Coil Clean	Yes		
Fresh Air Intake Location Roof top		▼	Fresh Air Intake Free	N/A
Pollutant Sources Near Air Intake	Not readily accessible ▼		of Obstruction	14/1

Observations

Classroom. Black/Grey staining on ceiling tiles around supply grills. Condensation and dust on supply grills. Ceiling tile grid is rusting around supply grills. Door open to central Large Materials Storage Area (FISH 186) which contains lots of items and cardboard boxes on wooden shelves. Temperature is low and Relative Humidity is similarly high in the adjacent FISH 186. Drain traps of lab sinks have foreign objects with some dry and some wet.

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

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New River Middle

Time of Day

12:45 PM

August 21, 2017

Outdoor Conditions Te	emperature 9	0.3 Relative	e Humidity 67.1	I Am	bient CO2 4	62
Fish Temperature 165/167 65.8	Range R	i			Range # 00 IAX 700 > Ambient	0 0
Noticeable Odor No	O Visil	ole water damage / staining?	Visible microbial growth?	-	Amount of naterial affected	
Ceiling 2' X 4' Lay ii	n	Yes	No		each supply gri	ı
Walls Drywall		No	No			
Floor 12" x 12" Viny	/	No	No			
Ceiling Clean No Walls Clean Yes]	HVAC Supply Grills Clean	Yes	=	HVAC Return Grills Clean	No
Flooring Clean Yes]	Inside of Supply Duct Clean	N/A	=:	nside of Return Ouct Clean	No
Room Surfaces Yes Clean]	Ceiling at Supply Grills Clean	No			
Trash Removed Yes] Ex	haust Fans Working	Yes		oved Chemicals / s in Room	No
Signs of Pests No]	Drain Traps Wet	Yes		esheners	No
Room Cluttered No		if Stored in Room is aled Containers	N/A	in Roc		_ NO_
Mechanical Equipment Loc	cation FISH 190			Mechan	ical Room Clean	No
Filters Installed Properly	Yes	Filters Clean	Yes	Inside of I	HVAC Unit Clean	Yes
Condensate Pan Clean	Yes	Cooling Coil Clean	Yes			
Fresh Air Intake Location	Roof top				n Air Intake Free	N/A
Pollutant Sources Near Air	Not readil	y accessible	\		Struction	

Observations

Intake

Classroom. Black/Grey staining on ceiling tiles around supply grills. Condensation and dust on supply grills. Ceiling tile grid is rusting around supply grills. Door open to central Large Materials Storage Area (FISH 186) which contains lots of items and cardboard boxes on wooden shelves. Temperature is low and Relative Humidity is similarly high in the adjacent FISH 186. Drain traps of lab sinks have foreign objects with some dry and some wet.

Corrective Actions to be Completed by Site Based Staff

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Clean ceilings around HVAC supply grills	▼
Clean dust from perimeter ceiling grid	▼
Remove foreign objects from sink drains &	▼
run water in sinks and floor drains monthly	▼
Clean HVAC Return Grill with Wexcide	▼
	▼
	▼
	▼

Corrective Actions to be Completed by PPO

Corrective Actions to be completed by FFO	
Evaluate and repair HVAC system as needed	▼
Set Temperature to 72 - 78 degrees	▼
Repair HVAC to Reduce CO2 Levels	▼
Evaluate and repair cause of stained ceiling tile	▼
Install new ceiling tile upon repair, cuts needed	▼
Evaluate/Repair HVAC dampers & exhaust interlocks	▼
interlocks	▼
Clean and repaint ceiling tile grid where rusted	▼

Evaluation Date

New River Middle

Time of Day

12:45 PM

August 21, 2017

Outdoor Conditions Tempera	ature 90.3 Relative	Humidity 67.1	Ambient CO2 40	62
		Range CO ² % - 60%		16
Noticeable Odor No	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	No	@ 5 CT; light lense	
Walls Drywall	No	No		
Floor 12" x 12" Vinyl	No	No		
Ceiling Clean No Walls Clean Yes	HVAC Supply Grills Clean	Yes	HVAC Return Grills Clean	No
Flooring Clean Yes	Inside of Supply Duct Clean	Yes	Inside of Return Duct Clean	No
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		- No
Room Cluttered No	Food if Stored in Room is in Sealed Containers	N/A	Air Fresheners in Room	No
Mechanical Equipment Location	FISH 190		Mechanical Room Clean	No
Filters Installed Properly Yes	Filters Clean	Yes	Inside of HVAC Unit Clean	Yes
Condensate Pan Clean Yes	Cooling Coil Clean	Yes		
Fresh Air Intake Location	Roof top	▼	Fresh Air Intake Free	N/A
Pollutant Sources Near Air	Not readily accessible	▼	of Obstruction	

Observations

Classroom. Black/Grey staining on ceiling tiles around supply grills. Condensation and dust on supply grills. Ceiling tile grid is rusting around supply grills. Door open to central Large Materials Storage Area (FISH 186) which contains lots of items and cardboard boxes on wooden shelves. Temperature is low and Relative Humidity is similarly high in the adjacent FISH 186. Drain traps of lab sinks have foreign objects with some dry and some wet.

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

Corrective Actions to be completed by 110	
Set Temperature to 72 - 78 degrees	•
Repair HVAC to Reduce Humidity Levels	▼
Repair HVAC to Reduce CO2 Levels	▼
Evaluate and repair cause of stained ceiling tile	▼
Install new ceiling tile upon repair, cuts needed	▼
Evaluate/Repair HVAC dampers & exhaust interlocks	▼
interlocks	•
Clean and repaint ceiling tile grid where rusted	▼