

managing risk with responsibility

Aston A. Henry, Supervisor Risk Management Department

TO:

Telephone: 754 321-1900 Fax: 754 321-1917

Signature on File August 1, 2012 For Custodial Supervisor Use Only Custodial Issues Addressed Donald Gardner, Principal Park Lakes Elementary School Custodial Issues Not Addressed FROM: Robert Krickovich, Coordinator I, LEA Facilities Design and Construction SUBJECT: Indoor Air Quality (IAQ) Assessment

On July 31, 2012, I conducted an assessment at Park Lakes 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 754-321-1907.

Directors, School Performance & Accountability cc: Shelley Meloni, Executive Director, Facilities Design and Construction Mark Dorsett, Manager, Zone 1, Physical Plant Operations Division Roy Norton, Manager, Custodial/Grounds, Physical Plant Operations Division Aston Henry, Supervisor, Risk Management Sonja Coley, Senior Project Manager, Facilities Design and Construction Broward Teachers Union Federation of Public Employees

RK/tc Enc.

	IAQ Assessr	nent		
Park Lakes	Elementary Evaluation Date	e July 31, 2012	Time of Day	3:00
Outdoor Conditions Tempera	ature 94.8 Relative	Humidity 47.6	Ambient CO2 4	19
		Range CO % - 60% 438		ccupants 2
Noticeable OdorYesCeiling2' X 4' Lay inWallsDrywall	Visible water damage / staining? Yes Yes	Visible microbial growth? Yes Yes	Amount of material affected 11 tiles 20 square feet	
Floor 12" x 12" Vinyl	No	No		
Ceiling CleanYesWalls CleanNoFlooring CleanNoRoom SurfacesNoCleanNo	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	Yes Yes	HVAC Return Grills Clean Inside of Return Duct Clean	No
Trash RemovedYesSigns of PestsNoRoom ClutteredNo	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	N/A Yes N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location Filters Installed Properly Yes Condensate Pan Clean N/A	-	No N/A	Mechanical Room Clean Inside of HVAC Unit Clean	N/A No
Fresh Air Intake Location Pollutant Sources Near Air Intake	Outside of room None	▼	Fresh Air Intake Free of Obstruction	Yes
Observations				
Musty odor in room - 11 stained boards and over tack board due	-	ater damaged walls	in three (3) places over ma	arker

Corrective Actions to be Completed by Site Based Staff

Set all HVAC controls for no less than 72 degrees	▼
Thoroughly clean all surfaces	▼
Thoroughly clean and sanitize flooring	▼
Clean HVAC return grills with Wexcide	▼
	▼
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	▼
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Corrective Actions to be Completed by PPO

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	IAQ Assessr	nent		
Park Lakes	Elementary Evaluation Date	e July 31, 2012	Time of Day	3:00
Outdoor Conditions Tempera	ature 94.8 Relative	Humidity 47.6	Ambient CO2 4	19
		Range CO ² % - 60% 423		ccupants 2
Noticeable Odor Yes	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	Yes	18 tiles	
Walls Drywall	Yes	Yes	ALL Walls	
Floor 12" x 12" Vinyl	Yes	No	10 Sq Ft	
Ceiling CleanNoWalls CleanNoFlooring CleanNoRoom SurfacesNoCleanNo	HVAC Supply Grills Clean Inside of Supply Duct Clean Ceiling at Supply Grills Clean	No No	HVAC Return Grills Clean Inside of Return Duct Clean	No
Trash RemovedYesSigns of PestsNoRoom ClutteredNo	Exhaust Fans Working Drain Traps Wet Food if Stored in Room is in Sealed Containers	N/A N/A N/A	Unapproved Chemicals / Cleaners in Room Air Fresheners in Room	No No
Mechanical Equipment Location Filters Installed Properly Yes Condensate Pan Clean N/A		No N/A	Mechanical Room Clean Inside of HVAC Unit Clean	N/A No
Fresh Air Intake Location Pollutant Sources Near Air Intake	Outside of room None	▼	Fresh Air Intake Free of Obstruction	Yes
Observations				
Musty odor in room - 18 ceiling f HVAC supply grills - Water stain wall surfaces				

Facilities and Construction will abate wall and ceiling material. PPO will replace.

Corrective Actions to be Completed by Site Based Staff

This room will NOT be available for start of school	▼
	▼
	▼
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Corrective Actions to be Completed by PPO

Repair HVAC to reduce humidity level	▼
Evaluate and repair cause of stained ceiling tiles	▼
Clean HVAC unit inside	▼
Clean HVAC supply grills and supply drops	▼
Replace ceiling tiles (after abatement)	▼
Replace all wall material (after abatement)	▼
	▼
	▼

	IAQ Assessi	ment		
Park Lakes Elem	entary Evaluation Dat	e July 31, 2012	Time of Day 3	3:00
Outdoor Conditions Temperature	94.8 Relative	Humidity 47.6	Ambient CO2 4	19
FishTemperatureRangeVarious72 - 78		Range CO % - 60%	² Range # Oc MAX 700 > Ambient	cupants
Noticeable Odor	Visible water damage / staining?	Visible microbial growth?	Amount of material affected	
Ceiling 2' X 4' Lay in	Yes	No	Various - See Below	v
Walls Drywall	Yes	No	Various - See Below	v
Floor				
Ceiling Clean	HVAC Supply Grills Clean		HVAC Return Grills Clean	
Flooring Clean	Inside of Supply Duct Clean		Inside of Return Duct Clean	
Room Surfaces Clean	Ceiling at Supply Grills Clean			
Trash Removed	Exhaust Fans Working		Unapproved Chemicals / Cleaners in Room	
Signs of Pests Room Cluttered	Drain Traps Wet Food if Stored in Room is in Sealed Containers		Air Fresheners in Room	
Mechanical Equipment Location			Mechanical Room Clean	
Filters Installed Properly	Filters Clean		Inside of HVAC Unit Clean	
Condensate Pan Clean	Cooling Coil Clean			
Fresh Air Intake Location		▼ ▼	Fresh Air Intake Free of Obstruction	
Observations				
FISH 851 - 5 stained ceiling tiles FISH 859 - 2 stained ceiling tiles	FISH 853 - 2 stained ceili	ng tiles FISH 85	7 - 3 stained ceiling tiles	
FISH 854 - 5 stained ceiling tiles, wet	wall material above tackb	oard by restroom		

Corrective Actions to be Completed by Site Based Staff

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Corrective Actions to be Completed by PPO

Evaluate and repair cause of stained ceiling tiles	▼
in FISH 851, 853, 854, 857, 859	▼
Replace stained ceiling tiles	▼
Evaluate and repair cause of water damage	▼
to wall material above tackboard in 854	▼
Remove and replace wall material as necessary	▼
	▼
	▼