

Aston A. Henry, Supervisor Risk Management Department

managing risk with responsibility

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April 16, 2012	Signature on File	For Custodial Supervisor Use Only			
TO:	Lewis Jackson, Principal Dania Elementary School	Custodial Issues Addressed Custodial Issues Not Addressed			
FROM:	Richard Rosa, Project Manager Facilities and Construction Management				
SUBIECT:	Indoor Air Ouality (IAO) Assessment				

On February 3, 2012, I conducted an assessment at **Dania 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.

cc: Area Superintendent

Area Directors Shelley Meloni, Executive Director, Facilities and Construction Management Mark Dorsett, Acting Director, Physical Plant Operations Division, Maintenance Sonja Coley, Project Manager III, Facilities and Construction Management Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division Aston Henry, Supervisor, Risk Management Broward Teachers Union Federation of Public Employees

RR/tc Enc.

			IAQ Asse	essment	Location Number		
	C	Dania Elementary	School		Evaluation Requested	Januar	y 25, 2012
Time of Day	11:00]			Evaluation Dat	e Februa	ry 3, 2012
Outdoor Conditie	ons Ten	nperature 7	7.7 R	elative Humidity	61.8 Amb	ient CO2	453
Fish Te	emperature	Range Relat	ive Humidity	Range	CO2 R	ange #	Occupants
201	75.1	72 - 78	51.1 3	0% - 60%	1073 Max 70	00 > Ambien	it 18
Noticeable Odo	r No	-	isible water age / staining?	Visible micro growth?	bial Amount material af		
Ceiling Type	2 x 4 Lay	In	Yes	No	3	ceiling tiles	
Wall Type	Concrete/Dr	rywall	No	No		None	
Flooring	12 x 12 Vir	nyl	No	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action	Required	
Ceiling	No	Yes	Yes		Remove and re	olace	
Walls	No	Yes	Yes		Clean as approp	oriate	
Flooring	No	Yes	Yes		Clean as approp	oriate	
HVAC Supply G	rills No	Yes	Yes		Clean as approp	oriate	
HVAC Return G	rills No	Yes	Yes		Clean as approp	oriate	
Ceiling at Suppl Grills	ly No	Yes	Yes		Clean as approp	oriate	
Surfaces in Roo	om No	Yes	Yes		Clean as approp	oriate	

Observations

Findings

- Dust build up on surfaces
- Dust build up on HVAC supply grills and on ceiling at supply grills
- Slightly elevated CO2 level
- Stained ceiling tiles. Visible water damage/staining on ceiling tiles around sprinklers and supply grills. Roof is new.

Site Based Maintenance:

- Thoroughly clean all surfaces throughout the room
- Remove and replace stained ceiling tiles not requiring cuts
- Clean HVAC supply and return grills with Wexcide, vacuum return grills and clean ceiling at supply grills.
- Monitor painted concrete wall for return of microbial growth

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

Physical Plant Operations:

- Evaluate for cause of staining on ceiling tiles around sprinklers and supply grills (NOTE: Roof is new) and repair as appropriate. Remove and replace ceiling tiles as necessary.

			IAQ Ass	sessment	Location Number		
Dania Elementary School				Evaluation Requested	January	/ 25, 2012	
Time of Day	11:00]			Evaluation Date	Februa	ry 3, 2012
Outdoor Cond	itions Ter	nperature 7	7.7	Relative Humidity	61.8 Ambi	ent CO2	453
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ra	nge #	Occupants
203	72.8	72 - 78	48.2	30% - 60%	1224 Max 70) > Ambien	t
Noticeable Oc	lor No	-	'isible water age / staining	Visible micro ? growth?	bial Amount material affe		
Ceiling Type	2 x 4 Lay	' In	Yes	No	less th	an 2 square	feet
Wall Type	Partition/B	lock	No	No		None	
Flooring	12 x 12 Vi	nyl	No	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action R	equired	
Ceiling	No	Yes	Yes		Remove and rep	ace	
Walls	Yes	No	No				
Flooring	Yes	No	No				
HVAC Supply	Grills No	Yes	Yes		Clean as approp	iate	
HVAC Return	Grills				N/A		
Ceiling at Sup Grills	ply No	Yes	Yes		Clean as approp	iate	
Surfaces in Ro	oom No	Yes	Yes		Clean as approp	iate	

Observations

Findings

- Dust build up on surfaces

- Dust build up on HVAC supply grills and on ceiling at supply grills

- Stained ceiling tiles. New roof on building.

Site Based Maintenance:

- Thoroughly clean all surfaces throughout the room

- Clean HVAC supply grills with Wexcide disinfectant solution and wipe down ceiling at supply grills

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

			IAQ As	sessment	Location Number		
	D	ania Elementar	ry School		Evaluation Requested	Januar	y 25, 2012
Time of Day	11:00				Evaluation Date	e Februa	ary 3, 2012
Outdoor Cond	itions Ten	nperature	77.7	Relative Humidity	61.8 Ambi	ent CO2	453
Fish	Temperature	Range Rela	tive Humidity	Range	CO2 Ra	inge	# Occupants
204	72.1 7	/2 - 78	54.1	30% - 60%	1510 Max 70	0 > Ambier	nt 26
Noticeable Oc	lor No		Visible water nage / staining	Visible micro growth?	bial Amount material aff		
Ceiling Type	2 x 4 Lay	In	Yes	No	3	ceiling tiles	
Wall Type	Concrete/Dr	ywall	No	No		None	
Flooring	12 x 12 Vir	nyl	No	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Action F	Required	
Ceiling	No	Yes	Yes		Remove and rep	lace	
Walls	Yes	Νο	No				
Flooring	Yes	Νο	No				
HVAC Supply	Grills No	Yes	Yes		Clean as approp	riate	
HVAC Return	Grills No	Yes	Yes		Clean as approp	riate	
Ceiling at Sup Grills	ply Yes	No	No				
Surfaces in Ro	oom No	Yes	Yes		Clean as approp	riate	

Observations

Findings

- Dust build up on surfaces
- Dust build up on HVAC supply and return grills
- Slightly elevated CO2 level due to 26 children singing
- Stained ceiling tiles. Visible water damage/staining on ceiling tiles around sprinklers and supply grills. Roof is new.

Site Based Maintenance:

- Thoroughly clean all surfaces throughout the room
- Remove and replace stained ceiling tiles
- Clean HVAC supply and return grills with Wexcide and vacuum return grills

- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate