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February 6, 2007

Signature on File

TO: Ms. Deborah Braly, Principal Hunt Elementary School

- FROM: Aston A. Henry, Jr., Supervisor Risk Management Department
- SUBJECT: Indoor Air Quality (IAQ) Assessment FISH 117, 123, 126 and 153

On January 16, 2007 I conducted an assessment of FISH 117, 123, 126 and 153 at **Hunt Elementary School**. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. The detailed findings, along with the recommended corrective action can be found on the attached IAQ Assessment Worksheets.

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.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-3200.

 cc: Dr. Joanne Harrison, Area Superintendent Jackie Haywood, Area Director
Jeffrey S. Moquin, Director, Risk Management
Dennis DiLeonardo, Project Manager, Facilities and Construction Management
Ruby Fitzgerald, Broward Teachers Union
Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1
Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division
Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

AAH/tc Enc.

			IAQ As	sessment	Locati	on Number	1971	
	ŀ	Hunt Elementar	y School		Evaluat	tion Requested		
Time of Day	2:04 pm				I	Evaluation Date	January	16, 2007
Outdoor Condi	itions Tem	perature 8	1.6	Relative Hum	idity 64	Ambie	nt CO2	360
Fish	Temperature F	Range Rela	tive Humidity	Range	CO2	Ran	ige #	Occupants
117	75.3 7	2 - 78	71.8	30% - 60%	862	Max 700	> Ambient	4
Noticeable Od	lor Yes	-	/isible water age / staining		microbial wth?	Amount of main affected	terial	
Ceiling Type	2 x 4 Lay	In	No	N	ο		None	
Wall Type	Drywall		No	Ν	0		None	
Flooring	Carpet		No	Ν	lo		None	
	Clean	Minor Dust / Debris	Needs Cleaning	I	Corre	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	Νο	No					

Findings:

- Visible microbial growth on furniture

- Humidity level was elevated at the time of the assessment

Recommendations:

Site Based Maintenance:

Clean furniture with Wexcide disinfectant solution

- 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 and repair HVAC system to lower humidity level

			IAQ As	sessment	Locati	on Number	1971	
	ŀ	Hunt Elementary	/ School		Evaluat	tion Requested		
Time of Day	2:04 pm				I	Evaluation Date	January	16, 2007
Outdoor Condi	itions Tem	perature 8	1.6	Relative Hum	idity 64	Ambie	nt CO2	360
Fish	Temperature F	Range Relat	ive Humidity	Range	CO2	Ran	ge #	Occupants
123	74.8 7	2 - 78	72.1	30% - 60%	902	Max 700	> Ambient	4
Noticeable Od	lor Yes	-	isible water age / staining		microbial wth?	Amount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	N	lo		None	
Wall Type	Drywall		No	N	lo		None	
Flooring	Carpet		No	N	lo		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	equired	
Ceiling	Yes	Νο	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	Νο	No					
HVAC Return	Grills Yes	Νο	No					
Ceiling at Sup Grills	ply Yes	Νο	No					
Surfaces in Ro	oom Yes	No	No					

Findings:

- Visible microbial growth on furniture

- Humidity level was elevated at the time of the assessment

Recommendations:

Site Based Maintenance:

Clean furniture with Wexcide disinfectant solution

- 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 and repair HVAC system to lower humidity level

			IAQ Ass	sessment	Location	Number	1971	
	ŀ	lunt Elementary	School		Evaluation	n Requested		
Time of Day	2:20 pm				Eva	aluation Date	January	16, 2007
Outdoor Condi	tions Tem	perature 8 ⁻	1.6	Relative Humidit	y 64	Ambie	nt CO2	360
Fish	Temperature F	Range Relat	ive Humidity	Range	CO2	Ran	nge #	Occupants
126	73.1 7 2	2 - 78	79.6	30% - 60%	697	Max 700	> Ambient	5
Noticeable Od	lor Yes		sible water age / staining	Visible mic ? growth	-	mount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No] [None	
Wall Type	Drywall		No	No			None	
Flooring	Carpet		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correcti	ve Action Re	equired	
Ceiling	No	Yes	Yes		Clean	as appropri	ate	
Walls	Yes	No	No					
Flooring	Yes	Νο	Νο					
HVAC Supply	Grills No	Yes	Yes		Clean with	Wexcide dis	infectant	
HVAC Return	Grills No	Yes	Yes		Clean with	Wexcide dis	infectant	
Ceiling at Sup Grills	ply No	Yes	Yes		Clean	as appropri	ate	
Surfaces in Ro	oom No	Yes	Yes		Clean	as appropri	ate	

Findings:

- Dust and debris on HVAC supply and return grills
- Heavy dust build up/impaction on ceiling at HVAC supply grills
- Heavy dust build up on environmental surfaces
- Humidity level was elevated at the time of the assessment

Recommendations:

Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution

- Thoroughly clean environmental surfaces

- 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:

- Remove and replace ceiling tiles around HVAC supply grills
- Evaluate and repair HVAC system to lower humidity level

			IAQ As	sessment	Locati	on Number	1971	
	I	Hunt Elementar	y School		Evalua	tion Requested		
Time of Day	2:20 pm					Evaluation Date	January	[,] 16, 2007
Outdoor Condi	tions Tem	perature 8	1.6	Relative Hun	nidity 64	Ambie	nt CO2	360
Fish	Temperature F	Range Rela	tive Humidity	Range	CO2	Ran	ige #	Occupants
153	68 7	2 - 78	74	30% - 60%	520	Max 700	> Ambient	18
Noticeable Od	lor Yes		'isible water age / staining		microbial owth?	Amount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	1	No		None	
Wall Type	Drywall		No		No		None	
Flooring	Carpet		No		No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corre	ctive Action Re	equired	
Ceiling	Yes	No	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills Yes	No	No					
Ceiling at Sup Grills	ply Yes	No	No					
Surfaces in Ro	oom Yes	No	No					

Findings:

- Visible microbial growth on curtains

- Humidity level was elevated and temperature was low at the time of the assessment

Recommendations:

Site Based Maintenance:

- Have the curtains professionally cleaned

- 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:

- Remove and replace ceiling tiles around HVAC supply grills
- Evaluate and repair HVAC system to increase temperature and lower humidity level