

managing risk with responsibility

Jeffrey S. Moquin, Director Risk Management Department Telephone: 754-321-3200 Facsimile: 754-321-3290

June 19, 2007	Signature on File			
TO:	Mr. Marc Charpentier, Principal Pembroke Pines Elementary School			
FROM:	Edward See, Project Manager Risk Management Department			
SUBJECT:	Indoor Air Quality (IAQ) Assessment FISH 109B and 161E			

On May 25, 2007 I conducted an assessment of FISH 109B and 161E at **Pembroke Pines 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. Additionally, environmental parameter measurements were taken to include temperature, relative humidity, and carbon dioxide. 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.

Please ensure that your Head Facilities Serviceperson receives a copy of this correspondence so that the recommendations requiring their attention can be addressed. Within two weeks a representative from the Custodial/Grounds Department will conduct a follow-up visit to ensure that all 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 me at 754-321-3200.

cc:	Steven Friedman, Area Superintendent (Task Assigned)
	Margaret Underhill, Area Director
	Jeffrey S. Moquin, Director, Risk Management
	Rodney Williams, Project Manager, Facilities and Construction Management
	Diane Watts, Broward Teachers Union
	Roy Jarrett, National Federation of Public and Private Employees
	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
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ES/tc Enc.

			IAQ Assessment		Location Numbe	er 1221	
	Pembroke F	ines Elementar	y School		Evaluation Reque	ested May 3, 2	2007
Time of Day [11:00 am				Evaluation	n Date May 25,	2007
Outdoor Condi	itions Terr	perature	84 F	Relative Humidity	64.2	Ambient CO2 5	31
Fish	Temperature	Range Relat	tive Humidity	Range	CO2	Range # O	ccupants
109B	73.4 7	2 - 78	41.7	30% - 60%	1084 M a	ax 700 > Ambient	1
Noticeable Od	lor No	-	isible water age / staining?	Visible micro growth?	, and a second	t of material fected	
Ceiling Type	Plaster		Yes	Yes		4 square feet	
Wall Type	Wall Type Drywall		Yes			4 square feet	
Flooring	Vinyl		No	No		None	
	Clean	Minor Dust / Debris	Needs Cleaning		Corrective Act	ion Required	
Ceiling	No	Yes	Yes	F	Repair/replace a	s appropriate	
Walls	No	Yes	Yes	F	Repair/replace a	s appropriate	
Flooring	No	Yes	Yes		Clean and	sanitize	
HVAC Supply	Grills Yes	No	Νο				
HVAC Return	Grills				N/A		
Ceiling at Sup Grills	ply No	Yes	Yes		Clean as ap	propriate	
Surfaces in Ro	oom No	Yes	Yes		Clean as ap	propriate	

Observations

Findings:

- Room is a kiln room and not being used
- Dust and debris on floor
- Dust and debris ceiling at HVAC supply grills
- Visible microbial growth and staining on ceiling and walls
- Dust build up on surfaces

-Recommendations:

Site Based Maintenance:

- Thoroughly clean and sanitize floor
- Clean ceiling at HVAC supply grills
- Thoroughly clean surfaces throughout the room

- 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 room for installation of return air grill. Room is a kiln room but not being utlized as such.
- Roof vent for the kiln is located adjacent to the AHU possible humid, unconditioned air is flowing into the kiln vent due to negative pressure Evaluate and repair as appropriate
- Evaluate cause of growth on walls and ceiling and repair/replace ceiling and wall material as appropriate

			IAQ As	sessment	Location N	lumber	1221	
	Pembroke P	ines Elementary	/ School		Evaluation	Requested	May 3	3, 2007
Time of Day	11:00 am				Eval	uation Date	May 2	5, 2007
Outdoor Conditi	ions Tem	perature	34	Relative Humidity	64.2	Ambie	nt CO2	531
Fish Te	emperature F	Range Relat	ive Humidity	Range	CO2	Ran	ige #	Occupants
161E	71.3 7	2 - 78	43.1	30% - 60%	1015	Max 700	> Ambient	2
Noticeable Odd	or No		isible water age / staining	Visible micro ? growth?	obial Ar	nount of ma affected	terial	
Ceiling Type	2 x 4 Lay	In	No	No			None	
Wall Type	Tackable	9	No	No			None	
Flooring	Vinyl		No	No			None	
	Clean	Minor Dust / Debris	Needs Cleaning		Correctiv	e Action Re	equired	
Ceiling	Yes	Νο	No					
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply G	Grills Yes	Νο	No					
HVAC Return G	irills Yes	Νο	No					
Ceiling at Supp Grills	ly Yes	Νο	No					
Surfaces in Roo	om Yes	No	No					

Observations

Findings:

No signs of water intrusion or visible microbial growth

Temperature was low at the time of the assessment

Dust and debris build up on AHU coils and drain pan

-Recommendations:

Site Based Maintenance:

- 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 HVAC for proper operation and clean coils and drain pans