

# managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

March 8, 2007 Signature on File

TO: Ms. Donna Morrison, Principal

**Country Hills Elementary School** 

FROM: Aston A. Henry, Jr., Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 503 and 511

On March 6, 2007 I conducted an assessment of FISH 503 and 511 at **Country Hills 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

Craig Anderson, Area Director

Jeffrey S. Moquin, Director, Risk Management

Philip Kaufold, 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.

	Country	Hills Elementa	ary School		Evaluation	Requested	March 5, 2007		
Time of Day	2:31 pm	]	_		Eva	luation Date	March 6, 2007		
Outdoor Condition	ons Tem	nperature	78.1	Relative Humidity	48.7	Ambien	t CO2 365		
		<u> </u>							
Fish Te	mperature p	Range Re	lative Humidity	Range	CO2	Rang	je # Occupants		
503	68.3	72 - 78	62.2	30% - 60%	1675	Max 700 >	Ambient 6		
Noticeable Odo	r Yes	da	Visible water mage / staining	Visible micro g? growth?			erial		
Ceiling Type	2 x 4 Lay	In	No	No			None		
Wall Type	Drywall		No No			None			
Flooring			Yes			re carpet			
- L									
	Clean	Minor Dust / Debris	Needs Cleaning	J	Correctiv	e Action Req	quired		
Ceiling	Yes	No	No						
Walls	Yes	No	No						
Flooring	No	Yes	Yes	Rei	nove carpe	ove carpet and replace with tile			
HVAC Supply G	rills Yes	No	No						
HVAC Return Gr	rills Yes	No	No						
Ceiling at Suppl Grills	y Yes	No	No						
Surfaces in Roo	m Yes	No	No						
Dbservations									
Findings:									
- No visible signs									
- Temperature was low and humidity level was elevated - CO2 level was elevated									
- Odor is emanatir		rpet. Carpet is	heavily staine	d and soiled.					
-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									

Facilities and Construction Management:
- Evaluate HVAC for proper operation and repair as appropriate to increase temperature and lower humidity level

Physical Plant Operations:
- Remove carpet and replace with tile

- Evaluate fresh air damper and repair as appropriate to lower CO2 level

IAQ Assessment

3111

**Location Number** 

		Time Lientence					
Time of Day	2:01 pm				E	Evaluation Date March 6, 2007	
Outdoor Condi	tions Ten	nperature	78.1	Relative Humidity	48.7	Ambient CO2 365	
Fish	Temperature	Range Rel	ative Humidity	Range	CO2	Range # Occupants	
511	69.8	<b>72 - 78</b>	55.8	30% - 60%	1439	Max 700 > Ambient 22	
Noticeable Odor Yes			Visible water nage / staining	Visible micr g? growth?		Amount of material affected	
Ceiling Type	e 2 x 4 Lay In		No	No		None	
Wall Type	Drywall/Tacl	kable	Yes	No		West wall	
Flooring	Carpet		Yes	No		Entire carpet	
	Clean	Minor Dust / Debris	Needs Cleaning	l	Correc	ctive Action Required	
Ceiling	Yes	No	No				
Walls	No	Yes	Yes	R	Remove and replace wall material		
Flooring	No	Yes	Yes	Re	Remove carpet and replace with tile		
HVAC Supply	Grills Yes	No	No				
HVAC Return (	Grills Yes	No	No				
Ceiling at Support Grills	ply Yes	No	No				
Surfaces in Ro	oom Yes	No	No				

IAQ Assessment

Country Hills Flementary School

3111

March 5, 2007

Location Number

Evaluation Requested

## **Observations**

### Findings:

- No visible signs of microbial growth or water intrusion
- Elevated moisture content in entire West wall (interior).
- Temperature was low at the time of the assessment. Humidity level would have exceeded target range but was reduced because the teacher has a dehumidifier constantly running in the room.
- CO2 level was elevated
- Odor is emanating from the carpet. Carpet is heavily stained and soiled.

### -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 cause of elevated moisture content in West wall and repair as appropriate. Remove and replace wall material as appropriate.
- Remove carpet and replace with tile

## Facilities and Construction Management:

- Evaluate HVAC for proper operation and repair as appropriate to increase temperature and lower humidity level
- Evaluate fresh air damper and repair as appropriate to lower CO2 level