

# managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

February 8, 2007 Signature on File

TO: Mr. Raymond LeFevre, Principal

Westchester Elementary School

FROM: Aston A. Henry, Jr., Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 851 and 852

On January 17, 2007 I conducted an assessment of FISH 851 and 852 at **Westchester 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

Denise Cone, 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.

	Westch	ester Elemer	itary School		Evaluation	i Requested			
Time of Day	1:49 p.m.				Eva	aluation Date	January 17, 20	07	
Outdoor Condi	itions Ten	nperature [	80.3	Relative Humidity	48.1	Ambie	nt CO2 367		
Fish	Temperature	Range R	elative Humidity	Panga	CO2	Ran	ge # Occup	nants	
851		72 - 78	75.2	Range 30% - 60%	670	<del></del>	> Ambient		
Noticeable Od	lor Yes	]	Visible water lamage / staining	Visible micro growth?		mount of mat	erial		
Ceiling Type	2 x 4 Lay	In	No	No			None		
Wall Type	Drywall		No	No			None		
Flooring	Tile		No	No			None		
	Clean	Minor Dus / Debris	st Needs Cleaning		Correctiv	ve Action Re	quired		
Ceiling	Yes	No	No						
Walls	Yes	No	No					$\Box \mid$	
Flooring	Yes	No	No					$\square$	
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						
bservations									
Findings: - Temperature v	was low and hum	idity level wa	as elevated						
Recommendat	ions:								
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 system for proper operation and repair as appropriate to increase temperature and lower humidity level									
Work Order EQ00841 has been generated to address concerns									
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IAQ Assessment

2681

**Location Number** 

<u> </u>		Westo	hester Elem	entary School	<u> </u>	Evaluation Requested				
Time of Day	1:49	9 p.m.					Evaluation Date	January 17, 2007		
Outdoor Condi	tions	Te	emperature	80.3	Relative H	umidity 48.	1 Ambien	t CO2 367		
Fish	Tempe	rature	Range	Relative Humi	<sup>idity</sup> Range	CO2	Rang	e # Occupants		
852	65	5.5	72 - 78	64.5	30% - 60%	1569	Max 700 >	Ambient 6		
Noticeable Od	lor [	Yes		Visible wa damage / stai		le microbial growth?	Amount of mate affected	erial		
Ceiling Type		2 x 4 La	ıy In	No	[	No	N	None		
Wall Type		Drywall		No	[	Yes	All Walls			
Flooring		Tile		No	[	No		None		
	(	Clean	Minor D / Debr			Corre	ective Action Req	juired		
Ceiling		Yes	No	No	0					
Walls		No	Yes	Ye	es	Clean w	ith Wexcide disin	fectant		
Flooring		Yes	No	No	0					
HVAC Supply	Grills	Yes	No	No	0					
HVAC Return	Grills	No	Yes	Ye	es	Clean w	ith Wexcide disin	fectant		
Ceiling at Sup Grills	ply	Yes	No	No	0					
Surfaces in Ro	oom	Yes	No	No	0					

IAQ Assessment

2681

**Location Number** 

## **Observations**

#### Findings:

- Visible microbial growth on walls, shelves and books
- Temperature was low and humidity and CO2 levels were elevated. Thermostat was set at 73 degrees, however, the temperature was only 65.5.
- Dust and debris on HVAC return grills

## Recommendations:

# Site Based Maintenance:

- Remove all items from the walls and wipe down walls and shelves with Wexcide disinfectant solution
- Clean HVAC return grills 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 HVAC system for proper operation and repair as appropriate to increase temperature and lower humidity and CO2 levels
- Provide custodial assist to clean walls and shelves and remove books, etc.

## Work Order EQ00841 has been generated to address concerns