

# managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

September 14, 2006 Signature on File

TO: Ms. Anne Lynch, Principal

**Coral Springs High School** 

FROM: Aston A. Henry, Jr., Supervisor

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

FISH 318, 320B and Portable 126

On September 12, 2006 I conducted an assessment of FISH 318, 320B and Portable 126 at **Coral Springs High 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

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.

Time of Day	3:00 pm			Eval	uation Date September 12	2, 2006	
Outdoor Condition	s Temperatur	86.4	Relative Humidity	65	Ambient CO2 39	6	
Fish Tem	perature Range	Relative Humidity	' Range	CO2	Range # Occ	upants	
318	<b>72.8 72 - 78</b>	64.4	30% - 60%	1227	Max 700 > Ambient	3	
Noticeable Odor	No	Visible water damage / stainin	Visible micro g? growth?		nount of material affected		
Ceiling Type	2 x 4 Lay In	Yes	No	<u> </u>	5 ceiling tiles		
Wall Type	Drywall	No	No		None		
Flooring	Tile	No	No		None		
	Clean Minor / Del		1	Correctiv	e Action Required		
Ceiling	No	s Yes	Remo	ve and rep	ace stained ceiling tiles		
Walls	Yes	No					
Flooring	Yes	No					
HVAC Supply Grill	Is Yes No	No					
HVAC Return Grill	s Yes No	No					
Ceiling at Supply Grills	Yes	No					
Surfaces in Room	Yes No	No					
Observations							
<ul> <li>Classroom was cle</li> <li>5 stained ceiling tile</li> </ul>	ial growth or water in ean at the time of the es levels were elevated	assessment	ssessment				
Recommendations	:						
Site Based Maintenance: - Remove and replace stained ceiling tiles - 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 and CO2 levels							
1							

**IAQ Assessment** 

Coral Springs High School

1151

September 11, 2006

**Location Number** 

**Evaluation Requested** 

	Coral	Springs Higl	h School		Evaluation	on Requested [	Septembe	er 11, 2006
Time of Day	3:00 pm				E	valuation Date	Septembe	r 12, 2006
Outdoor Condition	ns Tempe	rature 8	86.4 F	Relative Humidity	65	Ambie	nt CO2	396
Fish Ten	nperature Rar	nge Rela	tive Humidity	Range	CO2	Ran	ge #	Occupants
320B	72.4 <b>72 -</b>	78	65.1	30% - 60%	839	Max 700 > Ambient		
Noticeable Odor	No		Visible water Visible micr damage / staining? growth			Amount of material affected		
Ceiling Type	Ceiling Type 2 x 4 Lay In		Yes No			5 ceiling tiles		
Wall Type	Wall Type Drywall		No No			None		
Flooring	Tile		No	No		None		
	Clean M	Minor Dust / Debris	Needs Cleaning		Correct	tive Action Re	quired	
Ceiling	No	Yes	Yes	Clean as appropriate				
Walls	No	Yes	Yes	Clean as appropriate				
Flooring	Yes	No	No					
HVAC Supply Gri	IIs Yes	No	No					
HVAC Return Gri	lls Yes	No	No					
Ceiling at Supply Grills	Yes	No	No					
Surfaces in Roon	n Yes	No	No					
Observations								
Findings:  - Visible microbial of the control of th	ceiling tiles		assessment					
Recommendation	s:							
Site Based Mainte	nance:							

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

Physical Plant Operations:
- Evaluate and repair HVAC system to lower humidity level. Evaluate installing a return air vent in the door to FISH 320B.

Wipe down walls with Wexcide disinfectant solution and clean dishes as appropriate

Clean ceiling tiles as appropriate

appropriate

**IAQ Assessment** 

1151

**Location Number** 

Coral Springs High School					Evaluation Requested September 11, 200			ber 11, 2006
Time of Day	3:45 pm				E	Evaluation Date	Septeml	ber 12, 2006
Outdoor Cond	litions T	emperature	86.4	Relative Humidity	65	Ambie	nt CO2	396
Fish	Temperature	Range	Relative Humidity	/ Range	CO2	Ran	ge	# Occupants
P-126	73.8	72 - 78	45.6	30% - 60%	1705	Max 700	> Ambier	nt 2
Noticeable O	dor No		Visible water damage / stainin	Visible micro g? growth?		Amount of mat affected	terial	
Ceiling Type	Gypsum	Board	No	No			None	
Wall Type	Gypsum	Board	No	No			None	
Flooring	Tile	•	No	No			None	
	Clean	Minor D / Debri		)	Correc	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	oply Yes	No	No					
Surfaces in R	oom Yes	No	No					

IAQ Assessment

1151

**Location Number** 

## **Observations**

# Findings:

- No signs of microbial growth or water intrusion
- Classroom was clean at the time of the assessment
- A/C filters and coils were clean at the time of the assessment
- Only one of the two stand alone A/C units was on at the time of the assessment
- Damaged wood on Southeast exterior corner of portable
- Portion of exterior gutter on the ground
- CO2 level was elevated

# Recommendations:

## Site Based Maintenance:

- Ensure that both stand alone A/C units are on during classroom hours
- 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 damaged wood on Southeast exterior corner of portable
- Install exterior gutter that is on the ground
- Evaluate and repair HVAC system to lower CO2 level