

# managing risk with responsibility

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Jeffrey S. 1	Moquin,	Director
Risk Mana	agement	Department

Ocober 2, 2008	Signature on File
TO:	Mr. Jon Marlow, Principal  Deerfield Beach High School
FROM:	Aston Henry, Supervisor Risk Management Department
SUBJECT:	Indoor Air Quality (IAQ) Assessment

FISH 001, 194 and 195

For Custodial Supervisor Use Only

Custodial Issues Addressed

Custodial Issues Not Addressed

On September 26, 2008 I conducted an assessment of FISH 001, 194 and 195 at **Deerfield Beach 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. 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: Sharon Airaghi, Area Superintendent
David Hall, Area Director
Jeffrey S. Moquin, Director, Risk Management
Sam Bays, Project Manager, Facilities and Construction Management
Lynn Cavall, Broward Teachers Union
Roy Jarrett, Federation of Public 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

AH/tc Enc.

Deerfield Beach High School Evaluation Requested September 26, 2008					
Time of Day 11:30 a.m. Evaluation Date September 26, 2008					
Outdoor Conditions Temperature 85.1 Relative Humidity 54.1 Ambient CO2 335					
Fish Temperature Range Relative Humidity Range CO2 Range # Occupants    001					
Walls Yes No No					
Flooring Yes No No					
HVAC Supply Grills N/A					
HVAC Return Grills N/A					
Ceiling at Supply N/A Grills					
Surfaces in Room Yes No No					
Doservations  Findings: - Front hallway entrance into the school. No A/C supply or return grills in this location Front doors are constantly being opened and closed - No signs of microbial growth or water intrusion  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 hallway area for possible improvement to air circulation					

**IAQ Assessment** 

1711

**Location Number** 

	Dee	erfield Beach	High School		Evaluat	ion Requested	September 2	26, 2008
Time of Day	11:30 a.m.	]			ı	Evaluation Date	September 2	26, 2008
Outdoor Cond	ditions Te	mperature	85.1	Relative Hun	nidity 54.1	Ambie	nt CO2 3	35
Fish	Temperature	Range F	Relative Humidity	Range	CO2	Ran	ige # Oc	cupants
194	65.7	72 - 78	73.1	30% - 60%	805		> Ambient	3
Noticeable O	dor No	]	Visible water damage / staining		microbial owth?	Amount of ma affected	terial	
Ceiling Type	2 x 4 Lay	/ In	Yes		No	3 c	eiling tiles	
Wall Type	Drywa	II	No		No		None	
Flooring	Tile		No		No		None	
	Clean	Minor Du / Debris		1	Corre	ctive Action Re	equired	
Ceiling	No	Yes	Yes		Remove a	and replace ce	ling tiles	
Walls	Yes	No	No					
Flooring	Yes	No	No					
HVAC Supply	Grills Yes	No	No					
HVAC Return	Grills No	Yes	Yes		Clean wit	th Wexcide dis	infectant	
Ceiling at Sup Grills	pply Yes	No	No					
Surfaces in R	Room Yes	No	No					

IAQ Assessment

1711

**Location Number** 

# Observations

### Findings:

- Visible signs of microbial growth on several items throughout the classroom
- 3 stained ceiling tiles
- Dust and debris on HVAC return grills
- Temperature was low and humidity level was elevated at the time of the assessment

# Recommendations:

# Site Based Maintenance:

- Wipe down items throughout the room with Wexcide disinfectant solution. Continue to wipe down items until repairs to HVAC system are completed.
- Remove and replace stained ceiling tiles. If stain returns contact COMPASS to generate a work order for Physical Plant Operations to evaluate cause.
- 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 level

	Deerfield	Beach High School	Evalua	ition Requested	September 26, 2008
Time of Day	11:30 a.m.			<b>Evaluation Date</b>	September 26, 2008
Outdoor Condi	tions Tempera	ture 85.1	Relative Humidity 54.	1 Ambie	ent CO2 335
Fish	Temperature Rang	e Relative Humidit	y Range CO2	Rar	nge # Occupants
195	66.6 72 - 78	71.4	<b>30% - 60%</b> 1041	Max 700	> Ambient 31
Noticeable Od	or No	Visible water damage / stainin		Amount of ma affected	terial
Ceiling Type	2 x 4 Lay In	No	No		None
Wall Type	Drywall	No	No		None
Flooring	Tile	No	No		None
Calling		or Dust Needs Debris Cleaning	Corr	ective Action Re	equired
Ceiling	res	NO NO			
Walls	Yes	No No			
Flooring	Yes	No No			
HVAC Supply	Grills Yes	No No			
HVAC Return (	Grills No	Yes	Clean w	ith Wexcide dis	infectant
Ceiling at Sup Grills	ply Yes	No No			
Surfaces in Ro	oom Yes	No No			
Observations					

IAQ Assessment

**Location Number** 

## Findings:

- Visible signs of microbial growth on several items throughout the classroom
- Dust and debris on HVAC return grills
- Temperature was low and humidity level was elevated at the time of the assessment

# Recommendations:

### Site Based Maintenance:

- · Wipe down items throughout the room with Wexcide disinfectant solution. Continue to wipe down items until repairs to HVAC system are completed.
- 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 level